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EXERCISE DESERT ROCK LAS VEGAS NV

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EXERCISE DESERT ROCK VI. OPERATION 1-55. MARINE CORPS. THIRD MA--ETC(U)

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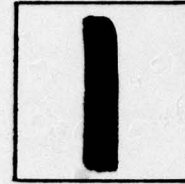
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Exercise Desert Rock VI
Operation Plan 1-55 Marine Corps Report
DOCUMENT IDENTIFICATION
March 1955

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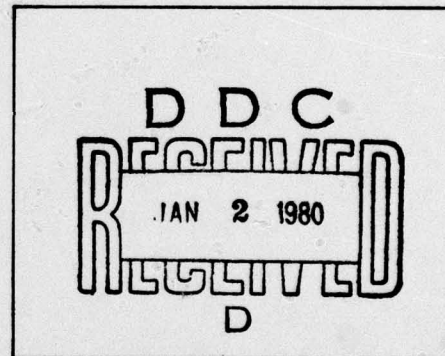
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DEATH

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COPY NO. 76 OF 117 COPIES
HQ, 3d Marine Corps
Provisional Atomic
Exercise Brigade
CAMP PENDLETON, CALIF.
231400U Feb 55

OPERATION PLAN 1-55

Ref: (a) Army Map Service (Corps of Engineers)
Photographic Maps, Transverse Mercator
Projection, AMS Series V796 (1:50,000)
Sheets:

2757 I	-	Cane Spring
2757 II	-	Spector Range
2758 II	-	Tippinbah Spring
2857 IV	-	Frenchman Lake
2858 III	-	Papoose Lake

(b) Nevada Test Site Tactical Map, 1:25,000
(2 sheets)

Time Zone: UNCLE (Pacific Standard Time)

TASK ORGANIZATION:

3d MCPAEB

H&SCo, 3d MCPAEB (Prov)(-)
Marine Camp Det.,
Camp Desert Rock

BrigGen EARNSHAW
Capt VAN DEN BERG

Maj BOOTH

a. MCTU #1

(1) 1stBn (Reinf)
1stBn
75mm RecGunPlat
4.2" MortPlat

Col RYDALGH
LCol NELSON

(2) 75mmPackHowBtry

Capt KOSTER

b. MAG-36 (-)

Col BYRUM

c. MAG-15 (-)

Col MORRELL

d. MASS-3 (-)

Maj O'MALLEY

e. Brig Helicopter Spt Unit

Capt WARREN

1. SITUATION.

a. Annex ABLE (Intelligence).

b. (1) Deputy Exercise Director, Camp Desert
Rock, Nevada, coordinates troop partici-
pation in Exercise Desert Rock VI with
AEC Test Manager and provides certain
logistic support.

(2) Commanding General, Aircraft, Fleet
Marine Force, Pacific, provides:

(a) Air liaison officer from this
Brigade to Air Operations Center,
Nevada Test Site.

(b) Military air lift for major elements
this Brigade to Indian Springs Air
Force Base, Nevada and return.

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Operation Plan 1-55 (Cont'd)

- (c) Limited staff augmentation.
- (3) Commanding General, Aircraft, Fleet Marine Force, Atlantic, provides four (4) R4Q aircraft for an air delivery mission. Commanding General, Aircraft, Fleet Marine Force, Pacific, coordinates.
- (4) Commanding General, Department of the Pacific, Marine Corps, provides certain logistic support.
- (5) Commanding General, Marine Corps Base, Camp Pendleton, California, provides certain logistic and administrative support and limited staff augmentation.
- (6) Commanding General, Fleet Marine Force, Pacific Troops, provides: Limited staff augmentation; Air Delivery Section, 1st Combat Service Group, for air delivery mission.
- (7) Commander, Field Test Group - 5 (Provisional) (FTG-5 Prov) coordinates and controls all aircraft flying over or near the Nevada Test Site. (Annex CHARLIE).

2. MISSION.

- a. This Brigade will conduct the Marine Corps portion of Exercise Desert Rock VI in accordance with the instructions contained in CMC letter 003A31654 of 8 December 1954 (SECRET) as modified by CMC letter 003A755 of 28 January 1955 (SECRET) and CMC message 142221Z February (CONFIDENTIAL). Marine Corps exercises, both air and ground, to be conducted in conjunction with atomic tests, will be known as Exercise Desert Rock VI - Marine Corps. The objectives are:
 - * (1) To afford commanders and staffs realistic training in planning and conducting operations that are supported by atomic weapons.
 - (2) To further test and evaluate tactics and techniques for the execution of air-ground task force missions when atomic weapons are employed.
 - (3) To develop new tactics and techniques to exploit the effects of an atomic explosion when atomic weapons are employed in support of air-ground forces.
 - (4) To familiarize personnel with the phenomena incident to an atomic explosion, and the effects thereof.

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Operation Plan 1-55 (Cont'd)

- (5) To familiarize personnel with the passive measures that serve to minimize or protect against the effects of an atomic explosion.
- b. Annex BAKER, Concept of Operations and Sequence of Events.
- c. Annex DOG, Operation Map.
- d. Resupply by air drop scheduled for D-plus-1-Day by fixed wing aircraft will be executed in accordance with instructions contained in Annex CHARLIE.

3. EXECUTION.

- a. MCTU #1. - On order displace to Camp Desert Rock, Nevada; on order deploy within Nevada Test Site; on order on D-Day, land in Landing Zones ABLE and BAKER (Annex EASY); execute MCTU #1 Training Order 14-55 (Operation SMOOTHBORE).
 - (1) 1stBn (Reinf). - On order on D-Day land in Landing Zones ABLE and BAKER (Annex EASY); seize, occupy and defend objectives NAN and SUGAR; execute MCTU #1 Training Order 14-55 (Operation SMOOTHBORE); on order on D-plus-1-Day, move one rifle platoon by helicopter from Landing Zone ABLE to Landing Zone CHARLIE (Annex EASY); seize, occupy and defend objective WILLIAM.
 - (2) 75mmPackHowBtry. - On order on D-Day land in Landing Zone BAKER (Annex EASY); provide direct artillery support to 1stBn (Reinf); execute MCTU #1 Training Order 14-55 (Operation SMOOTHBORE).
- b. MAG-36 (-).
 - (1) On order displace to Camp Desert Rock, Nevada; on order deploy within Nevada Test Site.
 - (2) Commencing at MIKE-Hour on D-Day, conduct helicopter operations (Annex CHARLIE) to support the Landing Plan (Annex EASY).
 - (3) Continue helicopter operations as directed, in support of the Brigade.
- c. MAG-15 (-).
 - (1) On order displace to Marine Corps Auxiliary Air Station, Mojave, California.
 - (2) Commencing at MIKE-Hour on D-Day, conduct close air support operations (Annex CHARLIE).

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Operation Plan 1-55 (Cont'd)

d. MASS-3 (-).

- (1) On order displace to Camp Desert Rock, Nevada; on order deploy within Nevada Test Site.
- (2) Establish and operate a Brigade Direct Air Support Center (Annex CHARLIE).

e. Brigade Helicopter Support Unit.

- (1) On order displace to Camp Desert Rock, Nevada; on order deploy within Nevada Test Site.
- (2) Conduct helicopter support operations. (Annex EASY and Administrative Plan 1-55).

x. Coordinating Instructions.

- (1) This plan is effective for planning on receipt; for execution on order.
- (2) Movement from home bases to Camp Desert Rock, Nevada and MCAAS, Mojave, California and return: Administrative Plan 1-55.
- (3) Training to be conducted in preparation for this exercise: Annex FOX.
- (4) Radiological safety instructions applicable within the Nevada Test Site and instructions for the exercise of monitor teams: Annex GEORGE.
- (5) Instructions for emergency evacuation of all troops from the forward area of the Nevada Test Site on D-Day, if necessary: Annex HOW.
- (6) Assignment of Zone Commanders, unit assignment to zones, instructions for control and safety of troops within the Nevada Test Site, and instructions for the movement of troops to the materiel display area: Annex ITEM.
- (7) Movement from Camp Desert Rock to Nevada Test Site and return: Annex MIKE. (To be published at Camp Desert Rock).
- (8) Definitions.
 - (a) D-DAY -- The day on which shot BEE is actually detonated (Tentatively 18 March).
 - (b) HOW-HOUR -- The precise instant on D-Day that shot BEE is detonated.

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Operation Plan 1-55 (Cont'd)

- (c) MIKE-HOUR -- The exact time on D-Day at which the helicopters bearing the first assault troops are launched from the initial launching site. To be announced by the Brigade Commander.
 - (9) Radio silence will be maintained on all radio nets below 225 megacycles from H-minus-1-Hour until H-plus-15-minutes. EQUIPMENT AFFECTED BY RADIO SILENCE WILL BE TURNED OFF DURING SILENCE PERIOD.
 - (10) ALL TROOPS WILL EXERCISE EXTREME CARE WHILE WITHIN THE NEVADA TEST SITE AS REGARDS LAND LINES OR WIRE OF ANY TYPE. IN THE EVENT A WIRE OR CONDUIT OF ANY TYPE IS DAMAGED OR CUT INADVERTANTLY IT IS OF THE UTMOST IMPORTANCE THAT IT BE REPORTED IMMEDIATELY TO THIS HEAD-QUARTERS.
 - (11) Strict camouflage discipline will be practiced.
4. ADMINISTRATIVE AND LOGISTICS.
- a. Administrative Plan 1-55.
 - b. Reports, Annex JIG.
 - c. Photography and Public Information, Annex KING.
 - d. Distribution, Annex XRAY.
5. COMMAND AND COMMUNICATIONS.
- a. Communications, Annex LOVE.
 - b. Command Posts.
 - (1) Nevada Test Site, Annex DOG.
 - (2) Camp Desert Rock, to be announced.
 - c. Time Zone UNCLE, Pacific Standard Time.

BY COMMAND OF BRIGADIER GENERAL EARNSHAW

E. N. RYDALCH
Colonel, U. S. Marine Corps
Chief of Staff

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Operation Plan 1-55 (Cont'd)

Annexes:

ABLE	Intelligence
BAKER	Concept of Operation and Sequence of Events
CHARLIE	Air Operations
DOG	Operation Map
EASY	Landing Plan
FOX	Training Instructions
GEORGE	Radiological Safety
HOW	Emergency Evacuation Plan
ITEM	Special Instructions
JIG	Reports
KING	Photography and Public Information
LOVE	Communications
MIKE	Movement from Camp Desert Rock to Nevada Test Site. (To be published at Camp Desert Rock)
XRAY	Distribution

DISTRIBUTION:
Annex XRAY

OFFICIAL

S. Jaskilka
S. JASKILKA
Major USMC
ACofS, G-3

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Hq, 3d MCPAEB
Camp Pendleton, California
231400U Feb55

Annex ABLE (Intelligence) to Operation Plan 1-55

- Ref: (a) Nevada Test Site, 1:25,000, Tactical Map
(2 Sheets)
(b) Nevada, 1:50,000, AMS Series V 796,
Sheets 2757 I, II, and IV, 2758 II and III,
2857 III and IV, and 2858 III.
(c) Nevada Test Site, 1:125,000, Ozalid Plan
Drawing

Time Zone: Uncle

1. INTELLIGENCE DATA

a. Area Study of the Nevada Test Site, Las Vegas, Nevada.

- (1) Location. The Nevada Test Site area is located approximately 250 miles Northeast of Camp Pendleton, Calif., in the southern part of the state of Nevada. The test site is 53 miles due East of Death Valley, Calif.; about 65 miles Northwest of Las Vegas and about 136 miles Southeast of Tonopah, Nevada. The perimeter of the area forms an elongated rectangle; the southern boundary extends 16.5 miles east to west generally along U.S. Highway 95, the northern boundary extends 16.5 miles east to west, the east and west boundaries both extend 40 miles north to south. The North, East and West boundaries are encompassed by the Las Vegas Bombing and Gunnery Range, USAF. The geographical location of the Nevada Test Site is between:

115 degrees 50' W and 116 degrees
15' W
36 degrees 31' N and 37 degrees 15' N

- (2) Description. The Nevada Test Site is a restricted area used for the conduct of atomic tests by the Atomic Energy Commission. The area is subdivided into controlled, limited and exclusion areas and a personnel hazard area. Access to these areas require prior Atomic Energy Commission approval and the individual must obtain and wear an appropriate AEC Identification Badge for the specific area. For example:
- (a) Limited Areas. The Quonset Area of the Los Alamos Scientific Laboratory, Camp Mercury requires that the individual wear an Area #2 AEC Identification Badge.
- (b) Exclusion Areas. The Tower Area requires that the individual wear a badge "as announced" by the AEC.
- (c) Controlled Areas. The Frenchman Flat

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Area requires that the individual wear an Area #3 AEC Identification Badge.

- (d) Personnel Hazard Area. No one may enter this area without prior approval of the AEC. This area is a 16,000 square meter exclusion area located North of Frenchman Lake in Badge Area #3. The area is RADIO-ACTIVELY CONTAMINATED and explosives are detonated in this area on an intermittent basis. This area is bordered by 1,000 meter grid lines as follows: 81 on the North, 97 on the East, 93 on the West of sheet, Frenchman Flat, 2857 IV, of reference (a). Warning signs plainly mark the hazard area at all access roads. Aircraft flying over the area must obtain prior clearance approval through the AEC-LVFO Security Office, Nevada Test Site.

(3) Civilian and Military Establishments.

- (a) Camp Mercury. It is a restricted permanent installation established by the Atomic Energy Commission which serves as the Nevada Test Site headquarters. The establishment is located generally in the Southeast corner of the test site 5 road miles from U.S. Highway 95 on a main access road which runs perpendicular to the latter highway. This access offers the only authorized ingress and egress to the test site area.
- (b) Camp Desert Rock. It is a semi-permanent, Class I establishment under the Commanding General, Sixth Army which serves as a camp to support observers and troops participating in military maneuvers and atomic tests within the Nevada Test Site. It is located 3.5 road miles North of U.S. Highway 95 and about 1 mile West of the same access road leading into Camp Mercury.
- (c) Airfield Facilities. Indian Springs Air Force Base is situated about 20 miles Southeast of Camp Desert Rock on U.S. Highway 95. Nellis Air Force Base is located 8 miles Northeast from Las Vegas, Nevada; McCarran Field, the Las Vegas Municipal Airport, is located 6.5 miles South of Las Vegas. Within the Nevada Test Site there is a 10,000 foot airstrip located on Yucca Lake 1 mile Northeast of Yucca Pass. An airstrip, about 4,200 feet in length, and a helicopter landing site, 3700

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feet long and 60 feet wide, is located about 300 yards Southwest of Camp Desert Rock.

(4) Topography.

- (a) Drainage System. The test site area contains two principal valleys or "flats". The southern valley, Frenchman Flat, and the northern valley, Yucca Flat are 3,000 and 4,000 feet above sea level respectively and both flats drain into dry lake beds. The valley floors are trafficable to foot troops or combat vehicles for the most part. Stream beds are generally flat and present no barrier to foot troops or combat vehicles. The aridity and drainage of the area is such that heavy rainfall is rapidly absorbed by the soil and drainage is instantaneous.
- (b) Surface Materials. The soil of the test site valley area consists mainly of alluvial deposits of shale, sandstone pebbles, small rocks, fine rock sand, and crust. Dry lake beds are virtually flat surfaces of hard packed clay, containing few of the soluble compounds often found in western salt or alkaline lakes. A rain may deposit a few inches of water on the surface of the lake beds, but the water will not penetrate, and in a few days the surface will again be dry and hard enough to land aircraft on.
- (c) Vegetation. There is no cultivation and only scattered groups of vegetation consisting mainly of sparse cactus and sago plants on the flats. The valleys are thinly covered with typical desert shrubs such as greasewood, creosote bushes, sagebrush and yucca, and Joshua trees. The surrounding high ground is even more barren than the valley area. Desert growth in the test site area presents no barrier to foot troops or combat vehicles; however, its presence does require careful selection of helicopter landing zones or emergency landing strips for fixed wing aircraft.
- (d) Cultural Features. The dominant feature of the test site is a two-lane, high speed main access road extending from U.S. Highway 95 through Camp Mercury and the Frenchman Flat area into the forward area of Yucca Flat. The Yucca Flat area

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contains an undetermined number of unimproved roads. An important unimproved road begins at the main access road approximately 1 mile North of the Control Point at Yucca Pass, extends in a Northwest direction to a pass just North of Syncline Ridge, then Southwest through Tippihah Springs, then skirting West of Mine Mountain, and passing Southeast through Mine Mountain back to the original point of juncture at the main access road. Another important unimproved road begins at the main access road approximately 4 miles South of the Control Point at Yucca Pass, extends West across the desert North of Skull Mountain and continues out of the Nevada Test Site, thence South to Lathrop Wells at U.S. Highway 95. These dirt roads can be negotiated by combat vehicles but commercial or civilian type vehicles will find them difficult to traverse.

- (1') Natural water resources in the test site area are very limited and the local establishments must rely on water transported into the area and water storage facilities.
- (5) Climatic and Astronomical Data for the Month of March. See Appendices 1 and 2. The climatical and astronomical information contained herein for the month of March may be taken as representative of the Nevada Test Site area and is based upon the latest reports available to date. Climatical and astronomical information which is disseminated at a subsequent date by the Atomic Energy Commission through this headquarters will be used for technical and operational computations requiring more exacting data.
- (a) Temperature. The average temperature during the month of March is 54.9 degrees F., with apparent extremes of 86.0 degrees F., for a maximum, and 27.0 degrees F., for a minimum. The mean maximum for the month is 67.8 degrees F., and the mean minimum is 41.3 degrees F.
- (b) Precipitation. The average precipitation for the month of March is 0.63 inches, occurring normally over 3.36% of the month (total hours 25.0). There is a very slight probability of flash flooding during this month.
- (c) Visibility. Restrictions of all types to less than one mile occurs 0.2% of the time (total hours, 1.5);

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from one to six miles 0.3% of the time (total hours, 2.2); and over six miles, 99.5% of the time (total hours 740.3).

- (d) Cloudiness. Ceilings below 1,000 feet occur 0.12% of the time (total hours, 1.0); from 1,000 to 2,000 feet, 0.6% of the time (total hours, 4.5); from 2,100 to 3,000 feet, 0.5% of the time (total hours, 3.7); from 3,100 to 5,000 feet, 2.1% of the time (total hours, 15.6); from 5,500 to 9,500 feet, 4.68% of the time (total hours, 34.8); and 10,000 feet and over, 92.0% of the time (total hours, 684.5).
- (e) Cloud Types. Cirrus clouds (all types) occur 36.6% of the time during the month of March; cumulus and cumulonimbus, 12.4% of the time; stratus, stratocumulus, fractocumulus, and fractostratus clouds, 13.7% of the time; alto cumulus, altostratus, and numbostratus, 29.5% of the time; and it is clear 35.3% of the time during the month.
- (f) Surface Winds. The predominant direction of the prevailing surface wind is from the Northeast with a mean velocity of 9.9 miles per hour. A secondary prevailing wind direction is from the South, with a mean velocity of 13.4 miles per hour. Peak gusts during the month of March have been recorded at 55 miles per hour from the South-Southeast.

2. COUNTER-INTELLIGENCE DATA.

a. Security Clearance Criteria for Desert Rock VI-Marine Corps.

- (1) Participating personnel must be United States citizens. A minimum clearance of SECRET is required for all officers and observers, and a CONFIDENTIAL clearance for enlisted personnel.
- (2) Participating personnel must have a valid Armed Forces Identification Card and Dog Tags in their possession at all times.

b. Atomic Energy Commission Security Regulations (General).

- (1) All security regulations promulgated by the Nevada Test Site Security Office will be applicable to Atomic Energy Commission and Department of Defense personnel.
- (2) Personnel, other than authorized troop

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units, entering the Nevada Test Site must possess and display an appropriate Nevada Test Site Identification Badge.

- (3) Only the following personnel may carry firearms within the Nevada Test Site:
 - (a) Nevada Test Site Security and guard personnel.
 - (b) Specifically designated law enforcement officers.
 - (c) Troop participating personnel (when directed).
- (4) Personal firearms are prohibited.
- (5) Narcotics, with the exception of those required by medical personnel, are prohibited within the limits of the Nevada Test Site.
- (6) Entrance to the Nevada Test Site constitutes consent to search private or Government vehicles or aircraft at any time while entering, leaving, or within the installation.
- (7) All violations of Atomic Energy Security Regulations, including those committed by Department of Defense personnel, will be regarded as falling within the investigative jurisdiction of the Federal Bureau of Investigation.
- (8) No binoculars or field glasses are permitted within the Nevada Test Site unless authorized by AEC and approved by the Commanding General, 3d MCPAEB.
- (9) Personal cameras and the taking of unofficial personal photographs are not permitted within the Nevada Test Site.

c. Security Procedures and Indoctrination.

- (1) Individual requests for Nevada Test Site Identification Badges will be made through the 3d MCPAEB, AC of S, G-2 during Desert Rock VI-Marine Corps.
- (2) Badge requests that have been approved initially by the AC of S, G-2 will be further processed and issued through the S-2 Section, Camp Desert Rock.
- (3) Troop convoy movements leaving Camp Desert Rock for entry into the Nevada Test Site must be accounted for by roster (in duplicate). The senior troop unit commander in charge of the troop movement will certify on the rosters or on certificates attached thereto, that he has personally checked all personnel aboard the

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vehicles. One roster will be turned over to an officer of the Camp Desert Rock permanent personnel who will be present at the point of embarkation. After returning from the test site area, the troop convoy certified roster will be turned over to the S-2 Section, Camp Desert Rock by the senior troop unit commander.

- (4) Security Indoctrination. Prior to departure from the Camp Pendleton or El Toro area, participating personnel will be instructed in the contents of Appendix 3. It is desired that this instruction be disseminated on the platoon level in the case of ground units and on the section level in the case of air units. As part of the pre-shot orientation program, further security indoctrination will be given after arrival in Camp Desert Rock as approved by the CG, 3d MCPAEB.
- (5) All security violations will be reported to the AC of S, G-2 for further action. The Army S-2 Section Camp Desert Rock has a CIC representative available at Camp Desert Rock. Requests to CIC for assistance will be coordinated by AC of S, G-2, 3d MCPAEB.
- (6) Aircraft Security Checks. Aircraft leaving Camp Desert Rock for flights over the Nevada Test Site must be checked prior to take off by a member of the Federal Service Security Force, Incorporated. This will be arranged for by direct liaison between pilots and the Camp Desert Rock Air Section. Aircraft from other fields must have authorization to fly over the Nevada Test Site. No check is required at Camp Desert Rock if the aircraft does not land there.

3. MAP DISTRIBUTION.

- a. Map distribution will be made by AC of S, G-2 in accordance with the following allocations: (additional maps, if available, will be furnished on request)

Annex ABLE (Intelligence) to Operation Plan 1-55
(Cont'd)

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UNITS	4.5 V 786	1:50,000	4.5 V 786 P	1:50,000	TACTICAL MAP	1:25,000	1:125,000	1:25,000	1:125,000	1:12,500	1:50,000
HQ. 3dMCPAFB	8	3	7	2	2	2	1				
HQ. MCTU#1	10	-	15	2	2	2	-				
HQ. 1stBN	50	1	72	6	2	2	-				
75 PK HOW BTRY	8	-	12	1	1	1	-				
CAMP DET. (CDR)	2	-	2	-	2	2	-				
HSU	5	-	5	2	1	1	-				
MAG-15	75	1	80	5	2	2	-				
MAG-36	35	1	45	5	2	2	-				
MASS-3	7	1	12	5	2	2	-				
TOTALS	200	7	250	26	16	13	1				

BY COMMAND OF BRIGADIER GENERAL EARNSHAW

E. N. RYDALCH
Colonel, U. S. Marine Corps
Chief of Staff

APPENDICES:

1. Climatology for Month of March
2. Astronomical Data for Month of March
3. Security Indoctrination

DISTRIBUTION:
Annex XRAY

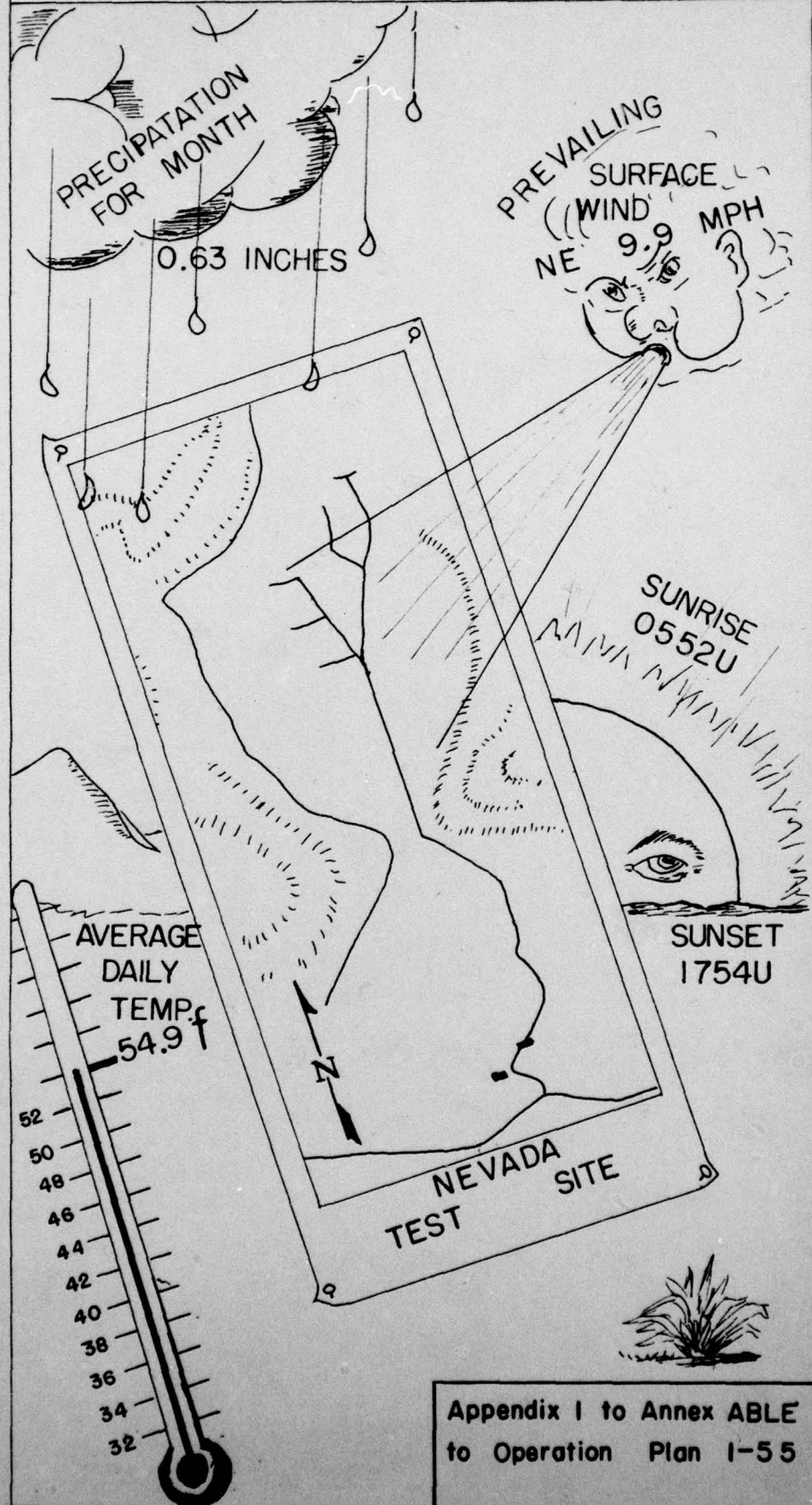
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Charles D. Fredrick

CHARLES D. FREDRICK
Major
AC of S, G-2

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MARCH CLIMATOLOGY



Appendix 2 (Astronomical Data for the Month of March
1955) to Annex ABLE to Operation Plan 1-55

DESERT ROCK, NEVADA

ALL TIMES ARE IN PACIFIC STANDARD TIME

<u>DATE</u>	<u>DAY</u>	<u>BOMT*</u>	<u>SUNRISE</u>	<u>SUNSET</u>	<u>EOET#</u>	<u>MOONRISE</u>	<u>MOONSET</u>
1	TUE	0451	0615	1738	1904	1105	0113
2	WED	0449	0614	1739	1905	1206	0214
3	THU	0448	0613	1740	1906	1311	0307
4	FRI	0447	0612	1741	1907	1419	0352
5	SAT	0445	0610	1741	1907	1526	0432
6	SUN	0444	0609	1742	1908	1631	0506
7	MON	0443	0608	1743	1909	1734	0537
8	TUE	0441	0606	1744	1910	1836	0606
9	WED	0440	0605	1745	1911	1936	0634
10	THU	0439	0604	1746	1912	2036	0702
11	FRI	0437	0603	1747	1913	2136	0732
12	SAT	0436	0601	1748	1914	2234	0805
13	SUN	0435	0600	1749	1915	2330	0842
14	MON	0433	0558	1750	1916	----	0923
15	TUE	0432	0556	1751	1917	0023	1009
16	WED	0430	0555	1752	1918	0114	1059
17	THU	0428	0553	1753	1919	0159	1155
18	FRI	0427	0552	1754	1920	0241	1254
19	SAT	0425	0550	1755	1921	0319	1355
20	SUN	0423	0549	1755	1922	0353	1459
21	MON	0422	0547	1756	1923	0425	1604
22	TUE	0421	0546	1757	1924	0457	1711
23	WED	0419	0544	1757	1924	0527	1820
24	THU	0418	0543	1758	1925	0601	1930
25	FRI	0416	0541	1759	1926	0637	2042
26	SAT	0414	0539	1800	1928	0718	2154
27	SUN	0412	0538	1801	1929	0806	2303
28	MON	0411	0537	1802	1930	0900	----
29	TUE	0409	0535	1803	1931	1001	0007
30	WED	0407	0534	1804	1932	1105	0103
31	THU	0405	0533	1805	1933	1212	0151

* Beginning of morning twilight

Ending of evening twilight

First Quarter - - 1st. & 30th

Full Moon - - - - 8th

Last Quarter - - 16th

New Moon - - - - 24th

BY ORDER OF BRIGADIER GENERAL EARNSHAW

E. N. RYDALCH
Colonel, U. S. Marine Corps
Chief of Staff

DISTRIBUTION:
Annex XRAY

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Charles D. Fredrick
CHARLES D. FREDIRCK
Major
AC of S, G-2

- 1 -

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Hq, 3d MCPAEB
Camp Pendleton, California
231400U Feb55

Appendix 3 (Security Indoctrination) to Annex ABLE to
Operation Plan 1-55

Ref: (a) U.S. Navy Security Manual for Classified
Matter, 1954

1. PURPOSE.

- a. In order that personnel participating in DES-ERT ROCK VI-MC be apprised as to their individual responsibilities in safeguarding classified defense information, it is directed that the contents of this appendix be disseminated to each individual prior to their arrival at Camp Desert Rock.
- b. It is desired that the information contained herein be the subject of formal instruction at the platoon level, in the case of ground units, and at the section level, in the case of air units. If possible, this instruction will be presented by an officer.

2. INDIVIDUAL RESPONSIBILITIES IN SAFEGUARDING CLASSIFIED INFORMATION AND RESTRICTED DATA.

- a. Restricted Data or other classified information, whether in oral or documentary form, shall be given only to those persons who require and are authorized to receive the information in the course of the performance of their duties, who possess the prescribed security clearance, and in the case of documents or other tangible matter, who have adequate facilities for the protection of same.
- b. No person is entitled to receive Restricted Data or other classified information solely by virtue of his official position or by virtue of having been granted a security clearance.
- c. No discussion of Restricted Data or other classified information will be held in the presence or hearing of persons who are not authorized to have knowledge thereof.
- d. Restricted Data or other information classified Top Secret, Secret, or Confidential should not be disclosed in telephone conversation or in personal correspondence.
- e. Proper control of dissemination of Restricted Data and other classified defense information, including copies thereof, shall be maintained at all times.
- f. Individuals in possession of classified matter while in a travel status will be familiar with the instructions contained in article 0705 of the U.S. Navy Security Manual for Classified Matter, 1954.
- g. No personal firearms, cameras, narcotics, or binoculars will be taken into the Nevada Test Site unless approved by the Commanding General, 3d MCPAEB.

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- h. Individuals must wear Dog Tags and must have valid Armed Forces Identification Cards in their possession at all times.

3. CLASSIFICATION GUIDE.

- a. Participants will be guided by the following classification guide prior to and subsequent to their participation in Desert Rock VI-Marine Corps: (Any modifications or additions to this classification guide will be promulgated as part of the pre-shot orientation program at Camp Desert Rock, Nevada.)

(1) Classification Guide:

CLASSIFICATION

	<u>BEFORE TEST</u>	<u>AFTER TEST</u>
(a) Dates of the Exercise	CONF.-Restrict-UNCLASSIFIED ed Data	
(b) Time of Detonation	CONF.-Restrict- ed Data	CONF.-Restrict- ed Data until declassified by joint action of AEC & DOD.
(c) Code Name-Desert Rock VI	UNCLASSIFIED	UNCLASSIFIED
(d) Code Name-Opera- tion TEAPOT	UNCLASSIFIED	UNCLASSIFIED
(e) Type of Shot (Air or Tower)	CONF.-Restrict- ed Data	CONF-Restricted Data until de- classified by joint action of AEC & DOD.
(f) Height of Burst	CONF-Restrict- ed Data	CONF-Restricted Data until de- classified by AEC.
(g) Yield of Weapon	SECRET-Re- stricted Data	SECRET-Restrict- ed Data
(h) Approximate dis- tance troops from Ground Zero (this distance is stated as 4,000 yds by AEC)	UNCLASSIFIED	UNCLASSIFIED
(i) Exact distance of troops from "GZ"	CONF-Restrict- ed Data	CONF-Restricted Data
(j) Location of De- monstration Equipment	CONF-Restrict- ed Data	CONF-Restricted Data

Appendix 3 (Security Indoctrination) to Annex ABLE
to Operation Plan 1-55 (Cont'd)

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BEFORE TEST

AFTER TEST

- (k) Damage to equipment UNCLASSIFIED UNCLASSIFIED
without reference
to location

4. APPLICABLE PROVISIONS OF FEDERAL STATUTES AND
REFERENCE (a). (to be read and explained to
troops)

a. Atomic Energy Act of 1946 (Section 10b Re-
strictions)

- (1) The term "restricted data" as used in this section means all data concerning the manufacture or utilization of atomic weapons, the production of fissionable material, or the use of fissionable material in the production of power, but shall not include any data which the Commission from time to time determines may be published without adversely affecting the common defense and security.
- (2) Whoever, lawfully or unlawfully, having possession of, access to, control over, or being entrusted with, any document, writing, sketch, photograph, plan, model, instrument, appliance, note or information involving or incorporating restricted data --
- (a) communicates, transmits, or discloses the same to any individual or person, or attempts or conspires to do any of the foregoing, with intent to injure the United States or with intent to secure an advantage to any foreign nation, upon conviction thereof, shall be punished by death or imprisonment for life (but the penalty of death or imprisonment for life may be imposed only upon recommendation of the jury and only in cases where the offense was committed with intent to injure the United States); or by a fine of not more than \$20,000 or imprisonment for not more than 20 years, or both;
- (b) communicates, transmits, or discloses the same to any individual or person, or attempts or conspires to do any of the foregoing, with reason to believe such data will be utilized to injure the United States or to secure an advantage to any foreign nation, shall, upon conviction, be punished by a fine of not more than \$10,000 or imprisonment for not more than 10 years, or both.
- (3) Whoever, with intent to injure the United States or with intent to secure an advantage to any foreign nation, acquires or conspires to acquire any document, writing, sketch, photograph, plan, model,

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instrument, appliance, note or information involving or incorporating restricted data shall, upon conviction thereof, be punished by death or imprisonment for life (but the penalty of death or imprisonment for life may be imposed only upon recommendation of the jury and only in cases where the offense was committed with intent to injure the United States); or by a fine of not more than \$20,000 or imprisonment for not more than 20 years, or both.

- (4) Whoever, with intent to injure the United States or with intent to secure an advantage to any foreign nation, removes, conceals, tampers with, alters, mutilates, or destroys any document, writing, sketch, photograph, plan, model, instrument, appliance, or note involving or incorporating restricted data and used by any individual or person in connection with the production of fissionable material, or research or development relating to atomic energy, conducted by the United States, or financed in whole or in part by Federal funds, or conducted with the aid of fissionable material, shall be punished by death or imprisonment for life (but the penalty of death or imprisonment for life may be imposed only upon recommendation of the jury and only in cases where the offense was committed with intent to injure the United States); or by a fine of not more than \$20,000 or imprisonment for not more than 20 years, or both.

b. Internal Security Act of 1950 (Section 18, Title 18, U.S. Code, Section 793, amended).

- (1) Whoever, for the purpose of obtaining information respecting the national defense with intent or reason to believe that the information is to be used to the injury of the United States, or to the advantage of any foreign nation, goes upon, enters, flies over, or otherwise obtains information concerning any vessel, aircraft, work of defense, navy yard, naval station, submarine base, fueling station, fort, battery, torpedo station, dockyard, canal, railroad, arsenal, camp, factory, mine, telegraph, telephone, wireless, or signal station, building, office, research laboratory or station, or other place connected with the national defense owned or constructed, or in progress of construction by the United States or under the control of the United States, or of any of its officers, departments, or agencies, or within the exclusive jurisdiction of the United States, or any place in which any vessel, aircraft, arms, munitions, or other materials or instruments for use in time of war are being made, prepared, repaired, stored, or are the sub-

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ject of research or development, under any contract or agreement with the United States or any department or agency thereof, or with any person on behalf of the United States, or otherwise on behalf of the United States, or any prohibited place so designated by the President by proclamation in time of war or in case of national emergency in which anything for the use of the Army, Navy, or Air Force is being prepared or constructed or stored, information as to which prohibited place the President has determined would be prejudicial to the national defense; or

- (2) Whoever, for the purpose aforesaid, and with like intent or reason to believe, copies, takes, makes, or obtains, or attempts to copy, take, make, or obtain, any sketch, photograph, photographic negative, blueprint, plan, map, model, instrument, appliance, document, writing, or note of anything connected with the national defense; or
- (3) Whoever, for the purpose aforesaid, receives or obtains or agrees or attempts to receive or obtain from any person, or from any source whatever, any document, writing, code book, signal book, sketch, photograph, photographic negative, blueprint, plan, map, model, instrument, appliance, or note, of anything connected with the national defense, knowing or having reason to believe, at the time he receives or obtains, or agrees or attempts to receive or obtain it, that it has been or will be obtained, taken, made, or disposed of by any person contrary to the provisions of this chapter; or
- (4) Whoever, lawfully having possession of, access to, control over, or being entrusted with any document, writing, code book, signal book, sketch, photograph, photographic negative, blueprint, plan, map, model, instrument, appliance, or note relating to the national defense, or information relating to the national defense which information the possessor has reason to believe could be used to the injury of the United States or to the advantage of any foreign nation, willfully communicates, delivers, transmits, or causes to be communicated, delivered, or transmitted or attempts to communicate, deliver, transmit or cause to be communicated, delivered, or transmitted the same to any person not entitled to receive it, or willfully retains the same and fails to deliver it on demand to the officer or employee of the United States entitled to receive it; or
- (5) Whoever having unauthorized possession of, access to, or control over any document, writing, code book, signal book, sketch,

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photograph, photographic negative, blueprint, plan, map, model, instrument, appliance, or note relating to the national defense, or information relating to the national defense which information the possessor has reason to believe could be used to the injury of the United States or to the advantage of any foreign nation, willfully communicates, delivers, transmits or causes to be communicated, delivered, or transmitted, or attempts to communicate, deliver, transmit or cause to be communicated, delivered, or transmitted the same to any person not entitled to receive it, or willfully retains the same and fails to deliver it to the officer or employee of the United States entitled to receive it; or

- (6) Whoever, being entrusted with or having lawful possession or control of any document, writing, code book, signal book, sketch, photograph, photographic negative, blueprint, plan, map, model, instrument, appliance, note, or information, relating to the national defense, (1) through gross negligence permits the same to be removed from its proper place of custody or delivered to anyone in violation of his trust, or to be lost, stolen, abstracted, or destroyed, or (2) having knowledge that the same has been illegally removed from its proper place of custody or delivered to anyone in violation of his trust, or lost, or stolen, abstracted, or destroyed, and fails to make prompt report of such loss, theft, abstraction, or destruction to his superior officer --

Shall be fined not more than \$10,000
or imprisoned not more than ten years,
or both.

- (7) If two or more persons conspire to violate any of the foregoing provisions of this section, and one or more of such persons do any act to effect the object of the conspiracy, each of the parties to such conspiracy shall be subject to the punishment provided for the offense which is the object of such conspiracy.

c. Excerpts of Reference (a).

- (1) Article 0909, quote:

- (a) "Indiscreet conversation and personal letters constitute great menaces to security. This applies especially to persons discussing office affairs with their families or friends. It also applies to careless talk on duty in the presence of persons not authorized to have the information. Loose talk

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in public places and over the telephone is also most dangerous. Information imparted to unauthorized persons within or outside the Naval Establishment may be repeated innocently and in ignorance of its importance until it becomes a matter of common knowledge. Foreign intelligence agents are scientifically trained to collect and to collate numerous bits of seemingly harmless information from conversation and rumors which circulate in the vicinity of naval activities. Therefore, automatic personal censorship of official and unofficial conversation and letters shall be a fundamental duty of all personnel of the Naval Establishment. The habit must be cultivated until it becomes routine."

(2) Article 0910, quote:

- (a) "Classified matter shall not be disclosed over telephones because of the insecurity due to executive cut-in, phantom voice interception, and wire tapping."

BY COMMAND OF BRIGADIER GENERAL EARNSHAW

E. N. RYDALCH
Colonel, U. S. Marine Corps
Chief of Staff

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CHARLES D. FREDRICK
Major
AC of S, G-2

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Annex ~~BAKER~~ (Concept of Operation and Sequence of Events) to Operation Plan 1-55.

Ref: (a) CMC ltr 003A31654 of 8Dec54 (SECRET).
(b) CMC ltr 003A755 of 28Jan55 (SECRET)

Time Zone: UNCLE

1. MISSION.

To conduct a coordinated air-ground exercise within the Nevada Test Site, in accordance with references (a) and (b). This exercise is known as Exercise Desert Rock VI - Marine Corps.

2. CONCEPT.

- a. Commencing at MIKE-Hour on D-Day, conduct a helicopter assault in the objective area to seize, occupy and defend objectives NAN, SUGAR, and WILLIAM.
- b. To develop the situation so as to require further evolutions by the Brigade toward destruction of an assumed enemy force by simulated fire (both nuclear and conventional) and maneuver.
- c. The maneuver will be conducted during a period of thirty (30) to thirty-six (36) hours and will culminate with an examination of displayed demonstration equipment to familiarize personnel with the effects on such equipment when subjected to atomic attack.

3. Exercise Desert Rock VI - Marine Corps is scheduled for shot BEE. The tentative date for this shot is 18 March. For planning purposes, 18 March has been designated D-Day. All dates are tentative, based solely on shot BEE being detonated as scheduled. The Sequence of Events follows:

- a. D-minus-8 (10 March) Commence movement of major elements together with equipment to Camp Desert Rock, Nevada.
- b. D-minus-7 (11 March) 3d MCPAEB close Camp Desert Rock, Nevada.
- c. D-minus-6 (12 March) Marine Air Group-15 (-) close MCAS, Mojave, California.
- d. D-minus-4 (14 March) Conduct rehearsal within the Nevada Test Site. Examine pre-shot condition of displayed materiel.
- e. D-minus-1 (17 March) Deployment of certain elements to selected positions within the Nevada Test Site.
- f. D-Day, D-plus-1 (18-19 March) Conduct coordinated air-ground maneuver; examine post-shot condition of displayed materiel; return to Camp Desert Rock, Nevada.

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Annex BAKER (Concept of Operation and Sequence of
Events) to Operation Plan 1-55 (Cont'd)

- g. D-plus-2, D-plus-3 (20-21 March) Prepare for return to home bases.
- h. D-plus-4 (22 March) Commence movement of major elements together with equipment to home bases.
- i. D-plus-5 (23 March) Major elements of 3d MCPAEB close home bases.
- j. D-plus-10 (28 March) Marine Camp Detachment, Camp Desert Rock, close Camp Pendleton.

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Annex CHARLIE (Air Operations) to Operation Plan 1-55

Maps: (a) Army Map Service (Corps of Engineers)
Photographic Maps, transverse Mercator
Projection, AMS Series, V796 (1:50,000)
Sheets:

2757 I	-	Cane Spring
2757 II	-	Spector Range
2758 II	-	Tippinah Spring
2857 III	-	Mercury
2857 IV	-	Frenchman Lake
2858 III	-	Papoose Lake

(b) Nevada Test Site Tactical Map 1:25,000
(2 sheets)

(c) World Aeronautical Charts (1:1,000,000)
Sheets: 362, 363, 364, 404, 405

Ref: (a) Field Test Group - 5 (Provisional)
Operation Order 1-55 for Operation
TEAPOT

Time Zone: UNCLE

1. SITUATION

- a. Enemy Forces (Annex ABLE).
- b. Friendly Forces.

- (1) Commander, Field Test Group - 5 (Provisional) through the Air Operations Center located at the Control Point, Nevada Test Site, assumes responsibility for operational control of all aircraft flying over or near the Nevada Test Site, during Operation TEAPOT. (Appendix 1 to Annex FOX, Air Control Procedures, of reference (a) applies). Beginning at MIKE Hour on D-Day, when released by Commander, Field Test Group - 5 (Provisional), control of all Marine aircraft organic to the 3d MCPAEB will pass to the control of the Commanding General, 3d MCPAEB, for purposes of the planned maneuver, Exercise Desert Rock VI - Marine Corps.
- (2) CG, AirFMFPac provides the following support upon request:
 - (a) Air lift major elements from MCAS, El Toro, (Santa Ana), California, to Indian Springs Air Force Base, Indian Springs, Nevada, and return to home bases. (Administrative Plan 1-55).
 - (b) Air delivery mission (4 R4Q's) on D-plus-1-Day at approximately 1000. (appendix 1).

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Annex CHARLIE (Air Operations) to Operation Plan 1-55
(Cont'd)

- (c) Liaison officer to the Air Operations Center, Nevada Test Site, in accordance with paragraph 3. (2) of reference (a).

2. MISSION

Conduct air operations in support of Exercise Desert Rock VI - Marine Corps.

3. EXECUTION

a. Marine Aircraft Group-15 (-) will:

- (1) On order, displace to Marine Auxiliary Air Station, Mojave, California, to arrive not later than D-minus-6-Day. (Administrative Plan 1-55).
- (2) Provide close air support. (Appendix 2).

b. Marine Aircraft Group-36 (-) will:

- (1) On order, displace to Camp Desert Rock, Nevada. (Administrative Plan 1-55).
- (2) Further displace on order to positions in the Nevada Test Site. (Appendix 5).
- (3) Provide helicopter support to execute the Landing Plan (Annex EASY) in accordance with instructions contained in Appendix 3.

c. Marine Air Support Squadron-3 (-) will:

- (1) On order, displace to Camp Desert Rock, Nevada. (Administrative Plan 1-55).
- (2) Further displace on order on D-minus-1-Day to position in the Nevada Test Site. (Appendix 5).
- (3) Further displace on order on D-Day to position shown on Appendix 5.
- (4) Establish and operate the Brigade Direct Air Support Center for the control of support aircraft and helicopters.

- x. (1) All participating aircrew personnel will be thoroughly briefed on applicable portions of reference (a).
- (2) Be prepared to conduct rehearsals in the exercise area anytime after D-minus-6-Day.
- (3) The official air-ground maps will be composed of those sheets listed in subparagraphs (a) and (b) under the heading Maps, Charts, this Annex.

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Annex CHARLIE (Air Operations) to Operation Plan 1-55
(Cont'd)

- (4) The DASC will release the close air support aircraft directly to the Forward Air Controllers until such time as the Battalion TACP is operating the Tactical Air Request Net. The DASC will monitor all missions run by the Forward Air Controllers during this period.

4. ADMINISTRATION AND LOGISTICS

a. Communications.

- (1) Air - Appendix 4.
(2) Ground Communications - Annex LOVE.

b. Command Posts.

- (1) MAG-15 (-), MCAAS, Mojave, California.
(2) MAG-36 (-), Appendix 5.
(3) MASS-3 (-), Appendix 5.

c. Time checks daily 0430U.

BY COMMAND OF BRIGADIER GENERAL EARNSHAW

E. N. RYDALCH
Colonel, U. S. Marine Corps
Chief of Staff

Appendices:

1. Air Delivery
2. Close Air Support
3. Helicopter Operations
4. Air Communications
5. Air Operations Overlay

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Appendix 1 (Air Delivery Mission on D-plus-1-Day) to
Annex CHARLIE to Operation Plan 1-55

Ref: None

Time Zone: UNCLE

1. MISSION

Four (4) R4Q type aircraft will be employed on D-plus-1-Day to perform an air delivery mission in support of Exercise Desert Rock VI - Marine Corps. The scheduled time of delivery is 1000. Personnel of the 1st Air Delivery Section, 1st Combat Service Group, FMF, Pacific Troops will perform the actual hook-up and release of the cargo to be delivered. (Administrative Plan 1-55).

2. DETAILED INSTRUCTIONS

- a. The assigned call signs for the aircraft are TALL COW 1 thru 4. The flight leader, (TALL COW 1), will report to DRAG NET, (Air Operations Center NTS), on 235 mcs (EAGLE) over Furnace Creek, California, (HOT POINT), giving number of aircraft, type, and altitude. TALL COW 1 will show IFF Mode 1. After reporting to DRAG NET, the flight leader will proceed to Lathrop Wells, Nevada, (APPLE BUTTER), reporting over that point and requesting permission to enter the Nevada Test Site. Upon receiving clearance to enter the Nevada Test Site, the flight will proceed to Grid Coordinates TA 60000, (LOOKING GLASS), reporting in to the Direct Air Support Center, (PEEPSIGHT), on 318.6, who will control the actual delivery. Upon completion of the mission, the flight will proceed south and clear the Nevada Test Site, leaving via Lathrop Wells and Furnace Creek. The Flight Leader, (TALL COW 1), will report out with DRAG NET on 235 mcs when clearing the south boundary of the Nevada Test Site.
- b. A complete flight profile and pilots briefing, with necessary maps and instructions, will be forwarded to CG, AirFMFPac (G-3) by this headquarters.

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Appendix 2 (Close Air Support) to Annex CHARLIE to
Operation Plan 1-55

Ref: (a) Field Test Group - 5 (Provisional) Oper-
ation Order 1-55

Time Zone: UNCLE

1. Close Air Support Aircraft will be scheduled as
follows for D-Day and D-plus-1-Day.

CALL SIGN	NO. A/C	DATE	TAKE OFF	ETA ORBIT	REPORT TO	ETA ETD	ETA MOJAVE
SIXGUN RED 1 & 2; WHITE, BLUE, GREEN, BLACK AND YELLOW, 1 thru 4	22	D-Day	0500	0530	See Para 2 below	0615	0645
SIXGUN ORANGE 1 thru 4	4	D-Day	0530	0600		0645	0715
SIXGUN RED 2-1 thru 2-4	4	D-Day	0615	0645		0730	0800
SIXGUN WHITE 2-1 thru 2-4	4	D-Day	0700	0730		0815	0845
SIXGUN BLUE 2-1 thru 2-4	4	D-Day	0745	0815		0900	0930
SIXGUN GREEN 2-1 thru 2-4	4	D-Day	0830	0900		0945	1015
SIXGUN BLACK 2-1 thru 2-4	4	D-Day	0915	0945		1030	1100
SIXGUN YELLOW 2-1 thru 2-4	4	D-Day	1000	1030		1115	1145
SIXGUN ORANGE 2-1 thru 2-4	4	D-Day	1045	1115		1200	1230
SIXGUN RED 3-1 thru 3-4	4	D-Day	1130	1200		1245	1315
SIXGUN WHITE 3-1 thru 3-4	4	D-Day	1215	1245		1330	1400
SIXGUN BLUE 3-1 thru 3-4	4	D-Day	1300	1330		1415	1445
SIXGUN GREEN 3-1 thru 3-4	4	D-Day	1345	1415		1500	1530
SIXGUN BLACK 3-1 thru 3-4	4	D-Day	1430	1500		1545	1615
SIXGUN YELLOW 3-1 thru 3-4	4	D-Day	1515	1545		1630	1700
SIXGUN ORANGE 3-1 thru 3-4	4	D-Day	1600	1630		1715	1745

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Appendix 2 (Close Air Support) to Annex CHARLIE to
Operation Plan 1-55 (Cont'd)

CALL SIGN	NO. A/C	DATE	TAKE OFF	ETA ORBIT	REPORT TO	ETA ETD	ETA MOJAVE
SIXGUN RED 4-1 thru 4-4	4	D-Day	1645	1715	See Para 2 below	1800	1830
SIXGUN WHITE 4-1 thru 4-4	4	D-Day	1730	1800		1845	1915
SIXGUN BLUE 4-1 thru 4-4	4	D/1	0515	0545		0630	0700
SIXGUN GREEN 4-1 thru 4-4	4	D/1	0600	0630		0715	0745
SIXGUN BLACK 4-1 thru 4-4	4	D/1	0645	0715		0800	0830
SIXGUN YELLOW 4-1 thru 4-4	4	D/1	0730	0800		0845	0915
SIXGUN RED AND WHITE 5-1 thru 5-4	8	D/1	0815	0845		0930	1000
SIXGUN BLUE 5-1 thru 5-4	4	D/1	0900	0930		1015	1045
SIXGUN GREEN 5-1 thru 5-4	4	D/1	0945	1015		1100	1130
SIXGUN BLACK 5-1 thru 5-4	4	D/1	1030	1100		1145	1215

2. Aircraft will comply with applicable instructions contained in reference (a) in the conduct of flight operations during Exercise Desert Rock VI - Marine Corp. Aircrew personnel must be thoroughly briefed on the applicable portions of reference (a).

a. Special instructions for the first mission on D-Day (22 F9F's).

The Tactical Air Coordinator Airborne, (TACA), (SIXGUN RED 1) will check in with DRAG NET on 235 mcs (EAGLE) over Furnace Creek, (HOT POINT), for the entire flight, and will report in with DRAG NET as being in the orbit position when reaching Lathrop Wells, (APPLE BUTTER). All division leaders will show IFF Mode 1. The other aircraft will be on standby. IFF transponders will be turned to low when flights are in the orbit position. The orbit will be a race track pattern between Lathrop Wells and Desert Rock, Nevada. All flights will remain west of Desert Rock at all times in this orbit. Lathrop Wells homer transmits on ____ kcs identification. Divisions will be stacked from 25,000 to 30,000 feet. DRAG NET will release the flight to the Direct Air Support Center, (PEEPSIGHT), shortly after HOW-Hour; instructions will be

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Appendix 2 (Close Air Support) to Annex CHARLIE to
Operation Plan 1-55 (Cont'd)

given the TACA at this time by (PEEPSIGHT), on 318.6 mcs (CHICKEN), as to when to commence attack on objectives NAN and SUGAR in support of the helicopter lift, this time being dependent upon the situation within the Nevada Test Site. All aircraft will remain in their orbit between Lathrop Wells and Camp Desert Rock until given these instructions. At the completion of this mission, the TACA will report out through DRAG NET on 235 mcs for the entire flight upon leaving the Nevada Test Site. Return to Mojave will be via Lathrop Wells, Furnace Creek direct to Mojave.

- b. Other support missions, as scheduled in accordance with paragraph 1. above, will report in to DRAG NET, 235 mcs, (EAGLE), over Furnace Creek, (HOT POINT), proceed direct to Lathrop Wells, (APPLE BUTTER), and from there to Grid Coordinates TA 6000, (LOOKING GLASS), for control by (PEEPSIGHT), on 318.6 mcs, (CHICKEN). Flight leaders will check out with DRAG NET on 235 mcs when leaving the Nevada Test Site.
- c. All flights will enter the area via Furnace Creek, Lathrop Wells to the orbit point at TA 6000 and return to Mojave via the same route with the exception of paragraph 2.a. above.

3. SPECIAL INSTRUCTIONS

- a. All ordnance loads will be simulated.
- b. Minimum pull out altitude is six-thousand (6000) feet, MSL.
- c. Flight leaders on all missions will set IFF to Mode 1 for the entire mission.
- d. Geographical locations and radio frequencies will be indicated by use of the assigned code name as appropriate. (Reference (a)).
- e. Attacks will be made on a heading of 045°; pull out will be left. (Appendix 5).
- f. Aircraft will remain west of Mercury Highway and will not approach the tower in area T-1, closer than one-thousand (1000) yards. (Appendix 5).

BY COMMAND OF BRIGADIER GENERAL EARNSHAW

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Colonel, U. S. Marine Corps
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Appendix 2 (Close Air Support) to Annex CHARLIE to
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Hq, 3d MCPAEB
Camp Pendleton, Calif.
231400U Feb 55

Appendix 3 (Helicopter Operations) to Annex CHARLIE
to Operation Plan 1-55

Ref: None

Time Zone: UNCLE

1. MISSION

Marine Helicopter Transport Group-36 (-) will air lift troops, equipment, and supplies between the loading and landing zones shown on Appendix 5, the instructions contained herein, and in accordance with the Landing Plan (Annex EASY).

2. SEQUENCE OF EVENTS

- a. On order on D-minus-1-Day, MAG-36 (-) helicopters with one pilot each, plus one officer and eight enlisted Marines, will displace from Camp Desert Rock to Loading Zone #1. (Appendix 5).
- b. On order on D-minus-1-Day, MAG-36 (-) personnel assigned to the MAG-36 (-) Command Post, refueling points, and loading zones #2 and #3 will displace to those zones by motor vehicle. (Appendix 5).
- c. At HOW-minus-60-minutes on D-Day, the helicopters in Loading Zone #1 will start engines. When warmed up and checked all engines will be shut down.
- d. At HOW-minus-10-minutes all helicopters will be loaded with troops and the engines will be started.
- e. Subsequent to the announcement of MIKE-Hour and upon signal from the lead helicopter, rotors will be engaged and aircraft prepared to launch.
- f. At MIKE-Hour, Plan XRAY will be executed. At that time the helicopters will launch in formation and proceed along the designated route to Landing Zones ABLE and BAKER and disembark troops. Upon signal that the troops are clear, the helicopters will take off in column and execute Plan YOKE. (Appendix 5).
- g. To execute Plan YOKE, helicopters will proceed to Loading Zones #2 and #3 as assigned to commence an airlift of troops to Landing Zones ABLE and BAKER. When directed helicopters will divert to Plan ZEBRA upon departure from Landing Zones ABLE and BAKER. (Appendix 5).
- h. To execute Plan ZEBRA, helicopters from Landing Zone ABLE will proceed to Loading Zone #4 and lift troops to Landing Zone ABLE.

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Appendix 3 (Helicopter Operations) to Annex CHARLIE
to Operation Plan 1-55 (Cont'd)

Helicopters from Landing Zone BAKER will proceed to Loading Zone #5 and lift troops to Landing Zone BAKER. Upon completion of Plan ZEBRA, all helicopters will be directed to revert to Plan YOKE. (Appendix 5).

1. The second phase of Plan YOKE will be an air lift of troops, crew served weapons and supplies in support of the assault. To execute this phase, helicopters from Landing Zone ABLE will proceed to Loading Zone #2 and lift troops and cargo to Landing Zone ABLE. Helicopters from Landing Zone BAKER will proceed to Loading Zone #3 and lift troops, crew served weapons and cargo to Landing Zone BAKER.
- j. Upon completion of the second phase of Plan YOKE, all helicopters will return to the refueling points unless under other instructions. (Appendix 5).
- k. On order on D-plus-1-Day, MAG-36 (-) helicopters will make one (1) lift from Landing Zone ABLE to Landing Zone CHARLIE. (Appendix 5). (Tentatively 0900U). Upon completion of this lift, the helicopters will return to the refueling area for staging back to Camp Desert Rock.

3. COORDINATING INSTRUCTIONS

- a. The signal to execute Plan XRAY, YOKE, or ZEBRA will be given over the helicopter direction net as well as visually by use of placards.
- b. The refueling of helicopters will be accomplished at the designated refueling points indicated on Appendix 5 as follows:
 - (1) Helicopters in the Landing Zone ABLE pattern will divert for refueling according to the following:

Numbers 1 thru 4 after initial lift.
Numbers 5 thru 8 after second lift.
Numbers 9 thru 12 after third lift.
Numbers 13 thru 16 after fourth lift.
 - (2) Helicopters in the Landing Zone BAKER pattern will divert for refueling according to the following:

Numbers 1 and 2 after initial lift.
Numbers 3 and 4 after second lift.
Numbers 5 and 6 after third lift.
Numbers 7 and 8 after fourth lift.
Numbers 9 and 10 after fifth lift.
 - (3) Refueling of each helicopter after the first refueling stop will be accomplished

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Appendix 3 (Helicopter Operations) to Annex CHARLIE
to Operation Plan 1-55 (Cont'd)

at approximately one-hour intervals.

- c. All helicopters will remain west of Mercury Highway while in the forward area. (North of Check Point Pass).
- d. Helicopters encountering mechanical difficulty will be reported to the MAG-36 (-) Command Post via radio (HD#1) or available wire nets. MAG-36 (-) will provide personnel and parts to effect repairs.
- e. (1) Simulated casualty evacuation. (Administrative Plan 1-55).
(2) Actual casualty evacuation. In the event of serious injury, MAG-36 (-) will provide direct evacuation to Camp Desert Rock. (Administrative Plan 1-55).
- f. All helicopters will remain at least one-thousand (1000) yards from the tower in area T-1, shown on Appendix 5.
- g. All crew members will be thoroughly briefed on the method of marking landing and loading zones, use of control panels, and other control measures. (Administrative Plan 1-55).
4. ADMINISTRATIVE PLAN 1-55.
5. a. Appendix 4 (Air Communications).
b. MAG-36 (-) Command Post. (Appendix 5).

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Appendix 4 (Air Communications) to Annex CHARLIE to
Operation Plan 1-55

Ref: None

Time Zone: Uncle

1. Radio Frequency Plan.

FREQUENCY	TAD#1 318.6MC	HD#1/TAD#2 279.4MC	TAR 4430KC 4130KC	(PRIM) TAA	(SEC) TAA	AOC 235MC	TEST SITE EMERGENCY 349.6MC	INTN'L EMERGENCY 243.6
TYPE EMISSION	6A3	6A3	6A3	6A3, LA1	6A3, LA1	6A3	6A3	6A3
FREQ. DESG.	M-19	M-20	M-2	M-3	M-1			
POWER OUTPUT				100W	100W			
MSG-15				X	X			
AIRCRAFT	X					0	0	0
MSG-36	0	X						0
HELICOPTERS	0	X						0
MASS-3 DET.	C	C	C	C	C	L	0	X
MCTU#1(AirLco)			X					
BN TACP	0	0	X					0
PAC	X	0						0

C - NET CONTROL
X - GUARD
0 - BE PREPARED TO GUARD
L - LISTEN

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Appendix 4 (Air Communications) to Annex CHARLIE to
Operation Plan 1-55 (Cont'd)

2. The organizations indicated will provide the equipment and personnel for installation, operation and maintenance of the designated nets.
3. Marine Aircraft Group-15 (-) and Marine Air Support Squadron-3 (-) will each provide one (1) AN/MRC-32 van for use on the TAA Net. At 0800 on D-minus-5-Day, radio contact will be effected on the primary frequency. If radio contact has not been established by 0900 on D-minus-5-Day, shift to the secondary frequency and effect contact. Radio contact will be maintained on this net as ordered. Radio silence will be in effect from H-minus-1-Hour until H-plus-15-minutes on this NET.
4. The Tactical Air Request Net will be established at H-plus-15-minutes. Strict radio silence will be maintained on this net from H-minus-1-Hour until H-plus-15-minutes.
5. The Forward Air Controllers, landed with the assault force, will use TAD#1 for the control of aircraft assigned by the DASC and will not be up on the TAR Net until the Battalion Command Post has landed. Aircraft will be put under the control of and will receive mission instructions directly from the FAC until the 1st Battalion Command Post has landed, at which time normal air control procedures will be in effect.
6. See Annex LOVE for assigned call signs.

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Annex EASY (Landing Plan) to Operation Plan 1-55

Time Zone: UNCLE

1. General. This Annex prescribes the sequence of landing heliteams of the assault force, to include the landing of troops, crew served weapons, equipment and supplies. Location of loading and landing zones: Annex DOG.

2. Definitions. Landing of the assault force will be made by helicopter in phases which are defined below and in the priority established in Appendix 1. The names assigned to the various PHASES prescribe the movement of the assault force and are to be distinguished from similar names used in Annex CHARLIE which describe FLIGHT PATTERNS only.

- a. PHASE XRAY: The movement of the initial wave of troops by helicopter, commencing at MIKE-Hour on D-Day from Loading Zone #1 to Landing Zones ABLE and BAKER.
- b. PHASE YOKE - I: The movement of troops and equipment by helicopter on D-Day from Loading Zone #2 to Landing Zone ABLE and from Loading Zone #3 to Landing Zone BAKER. It is executed upon arrival of the helicopters in the respective Loading Zones after PHASE XRAY has been completed.
- c. PHASE ZEBRA: The movement of troops and equipment by helicopter on D-Day from Loading Zone #4 to Landing Zone ABLE and from Loading Zone #5 to Landing Zone BAKER. It is executed upon arrival of helicopters in the respective Loading Zones after PHASE YOKE - I has been completed.
- d. PHASE YOKE - II: The movement of troops, crew served weapons, equipment and supplies by helicopter on D-Day from Loading Zone #2 to Landing Zone ABLE and from Loading Zone #3 to Landing Zone BAKER. It is executed upon arrival of the helicopters in the respective Loading Zones, after PHASE ZEBRA has been completed.
- e. PHASE WILLIAM: The movement of one reinforced rifle platoon by helicopter on order at approximately 0900 on D-plus-1-Day from Landing Zone ABLE to Landing Zone CHARLIE.

3. Heliteam Priority Assignment: Appendix 1.

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Appendix:

1. Heliteam Priority Assignment.

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Annex EASY (Landing Plan) to Operation Plan 1-55 (Cont'd)

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Appendix 1 (Heliteam Priority Assignment) to Annex
EASY to Operation Plan 1-55

HELITEAM NUMBER	NO. OF TROOPS	HELICOPTER LOADS	COMPOSITION
--------------------	------------------	---------------------	-------------

PHASE XRAY

1A 01	4	1	2 Radiac Teams
1A 02 thru 13	47	12	1st Plat, B Co and 1 PIO Man
1B 01 thru 12	47	12	1st Plat, C Co
1B 13	4	1	PIO Men
TOTALS	102	26	

PHASE YOKE - I

2A 01 and 02	7	2	HSU Control Party
2A 03 thru 41	142	39	2d Plat, B Co
2A 42	0	1	*Supplementary
2A 43	0	1	*Supplementary
2A 44 thru 57	46	14	H&SCo, 1stBn (BnCO) (Incl 4 81mm Mortars)
2A 58 thru 61	15	4	HSU CP Troops
2A 62 and 63	8	2	Bn Aid Station
2A 64	0	1	*Supplementary
TOTALS	218	64	

3B 01 thru 39	141	39	2d Plat, C Co
3B 40	0	1	*Supplementary
3B 41	0	1	*Supplementary
3B 42 thru 48	24	7	H&SCo, 1stBn (Incl 4 81mm Mortars)
3B 49C	0	1	CP Equipment
3B 50C	0	1	Medical Supplies
TOTALS	165	50	

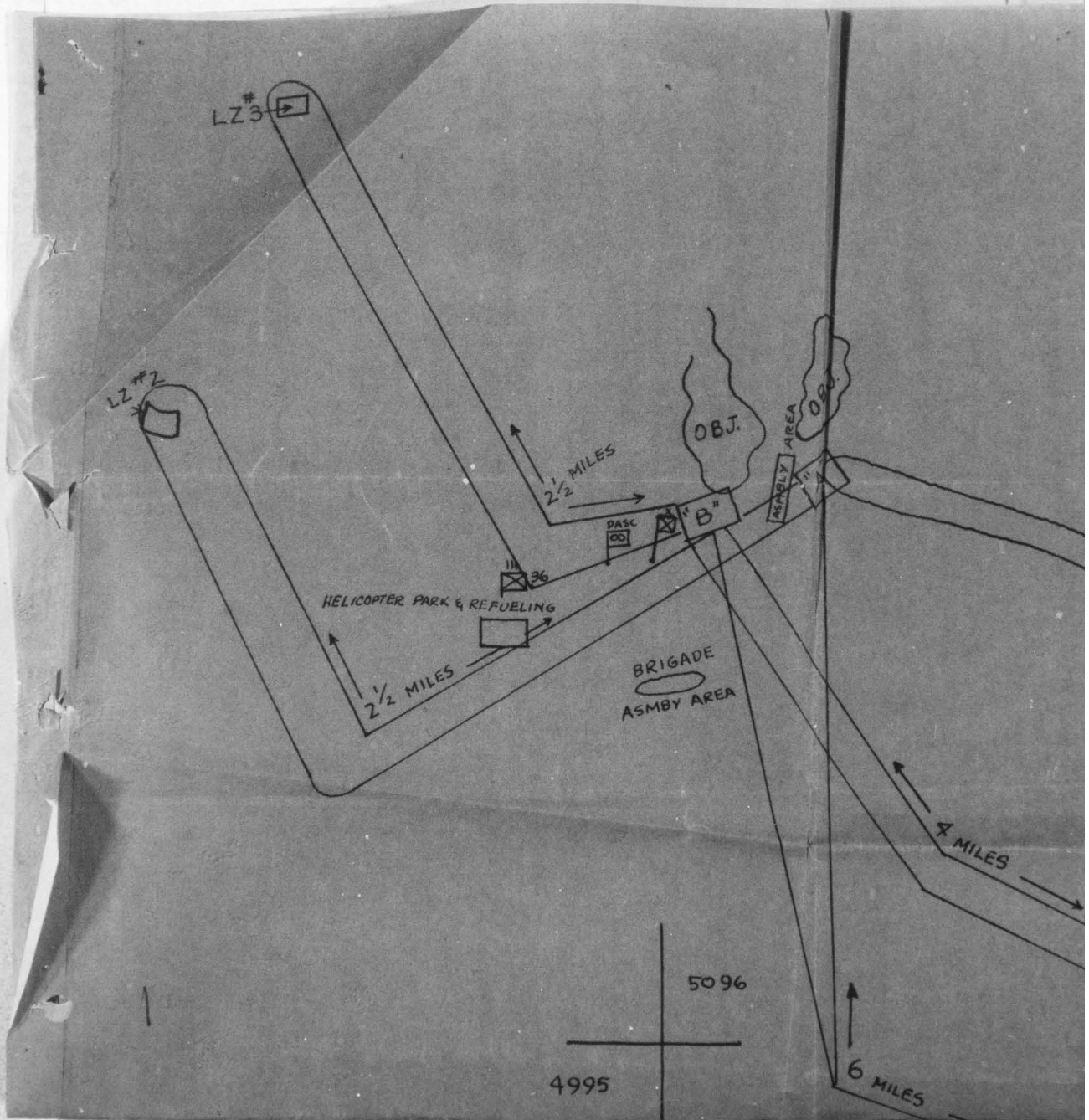
PHASE ZEBRA

4A 01 thru 27	101	27	1st and 2d Plats, D Co
4A 28	0	1	*Supplementary
4A 29 thru 35	26	7	H&SCo, 1stBn
4A 36 thru 50	60	15	75mm Pk How Btry (Less Howitzers)
4A 51 thru 70	81	20	1st and 2d Plats, A Co
4A 71	0	1	*Supplementary
4A 72 thru 80	35	9	HSU Security Troops
4A 81	4	1	MAG-36 Crew Chiefs
TOTALS	307	81	

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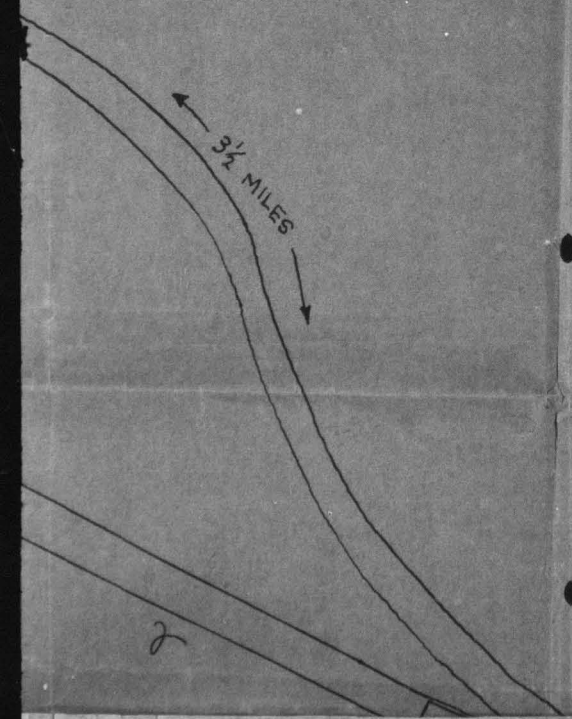
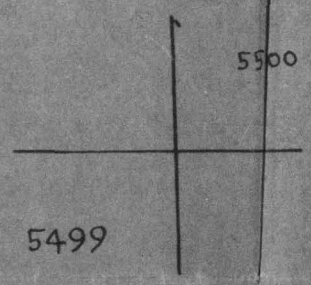
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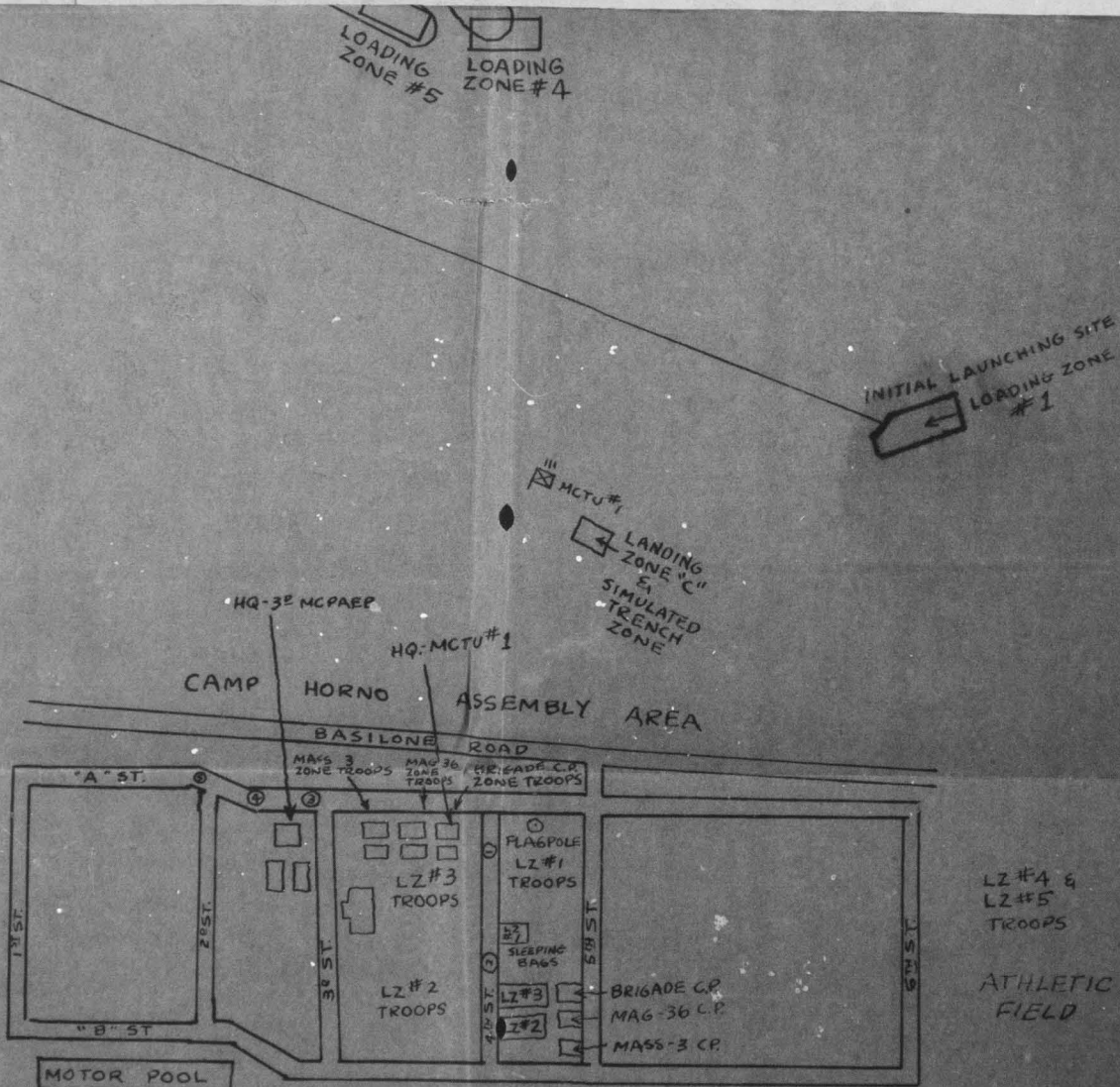
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ENCLOSURE (1) TO APP. 2 (DETAILED SCHEDULE
PHASE II TRAINING) TO ANNEX FOX
TO OPN PLAN 1-55

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NEVADA TEST SITE

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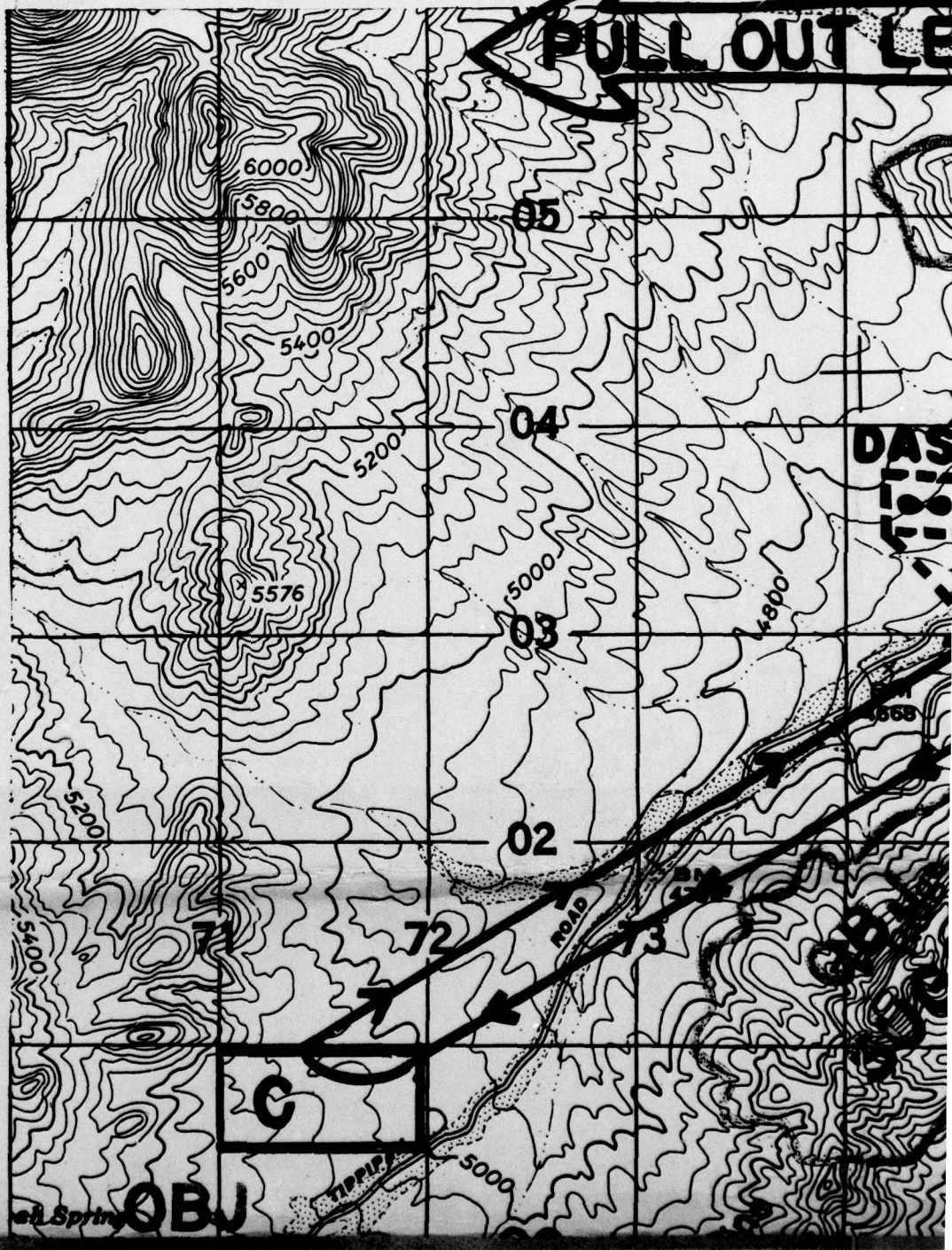
04

03

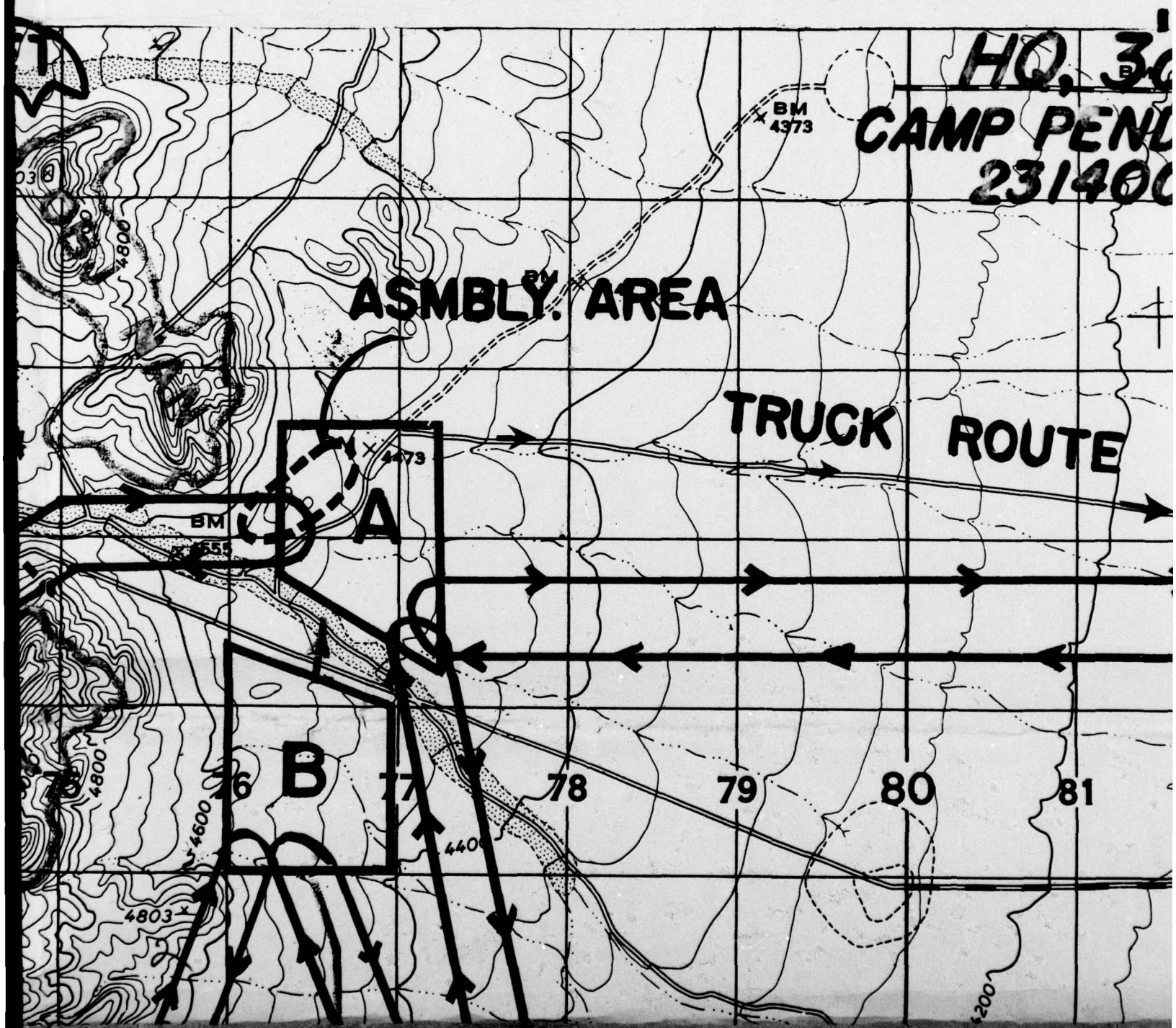
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01

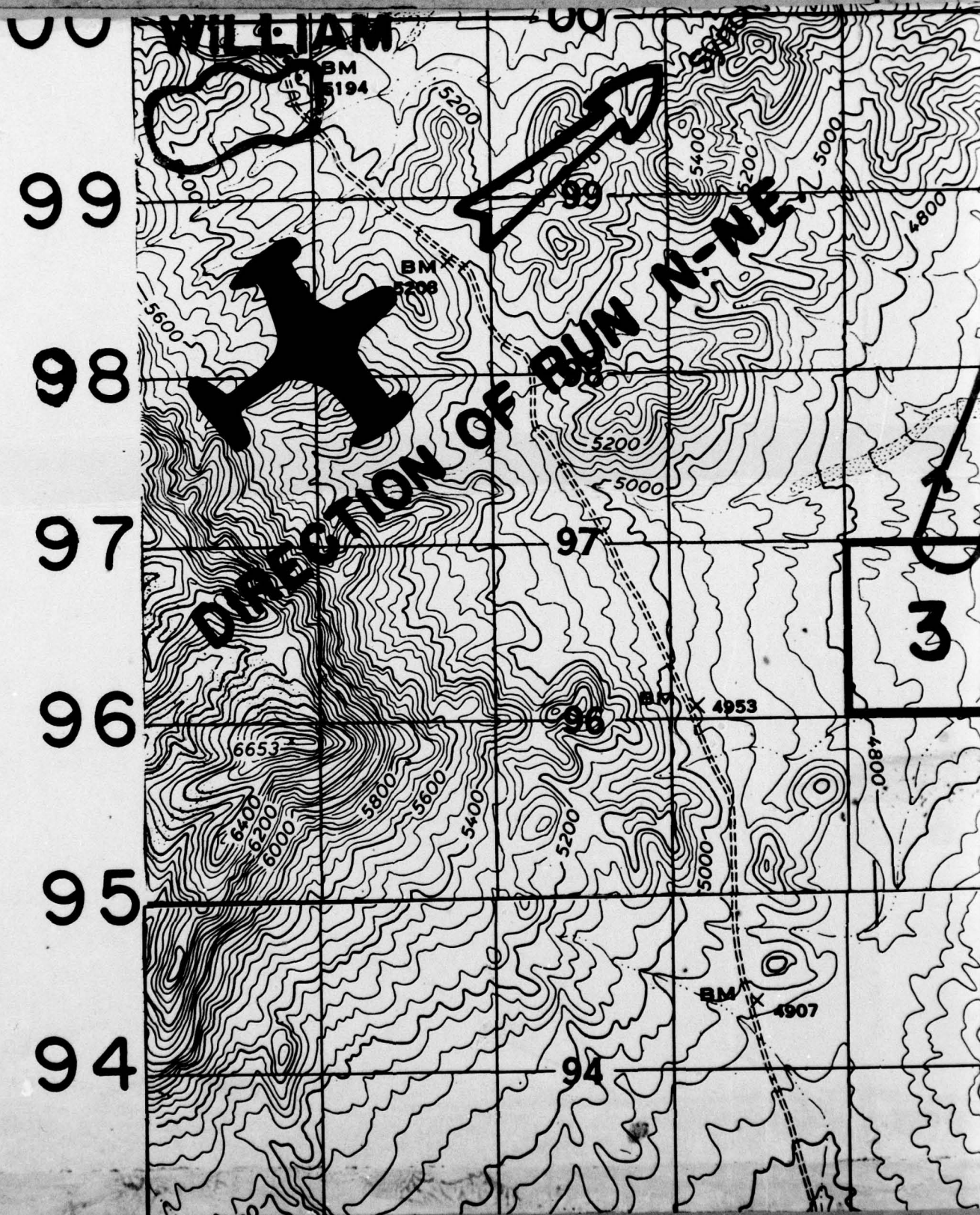
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E TACTICAL MAP







HCPTR ROUTE

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ASMBLY. AREA

**REFUELING
POINTS**

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2

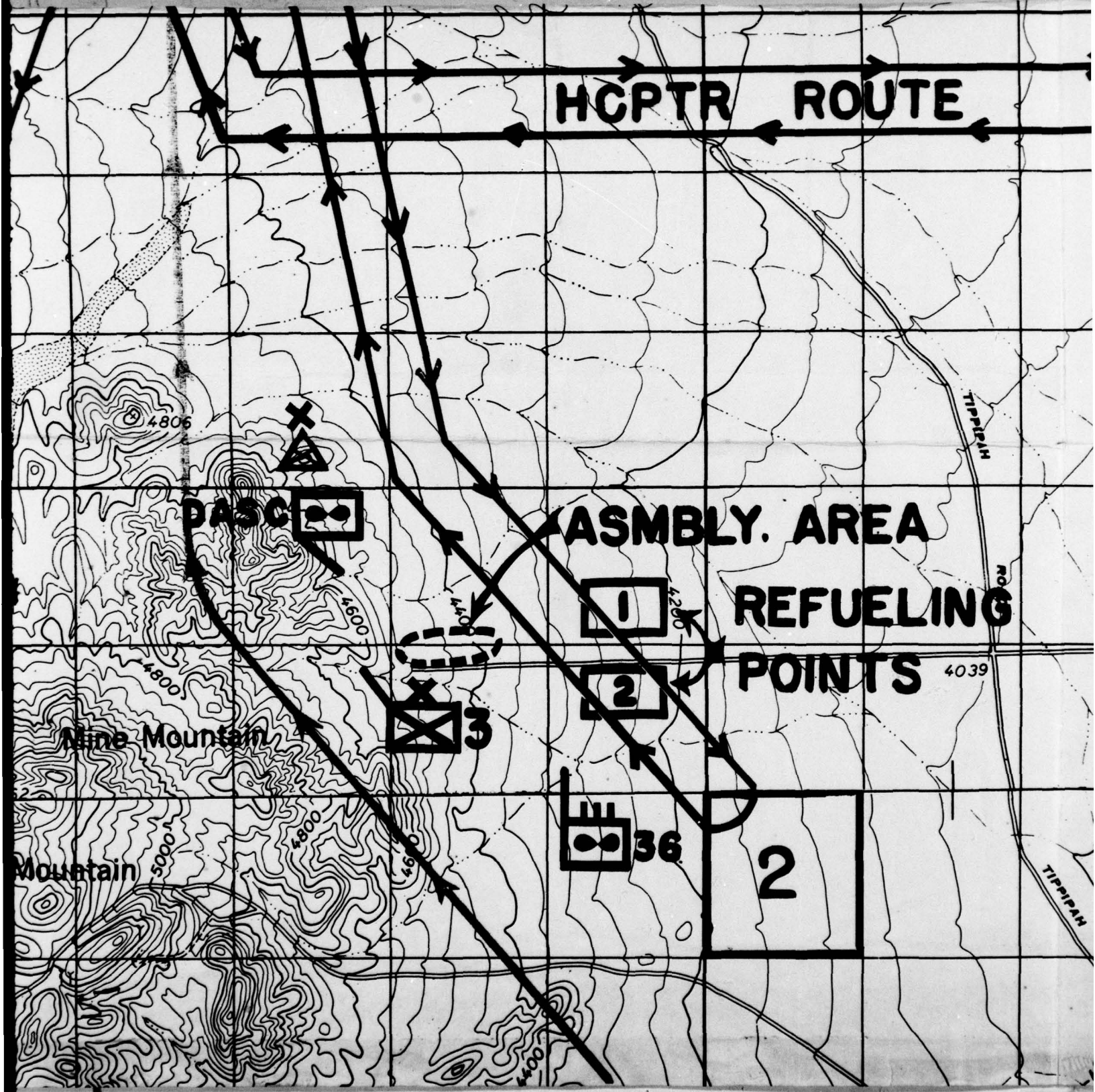
Mine Mountain

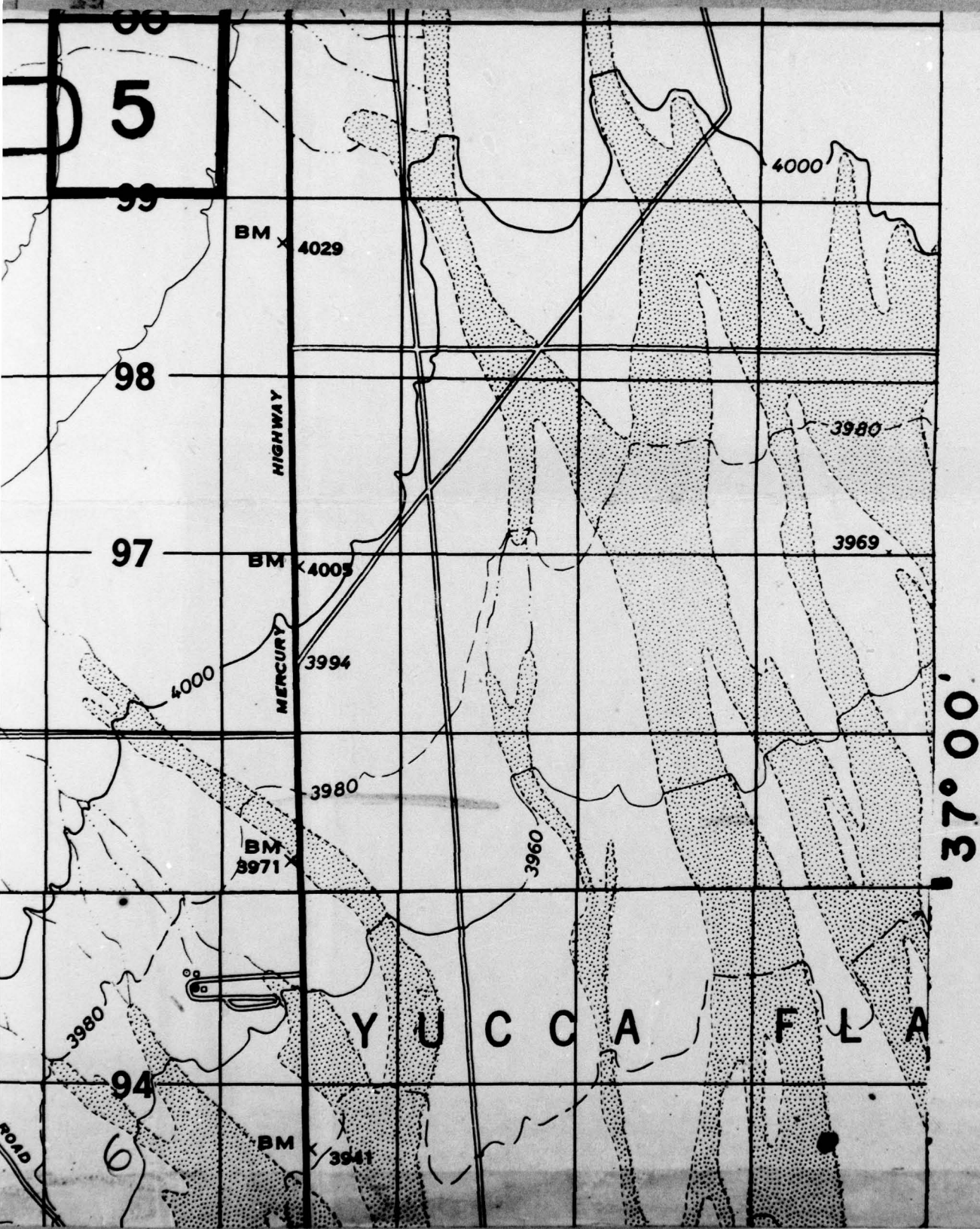
Mountain

TIPPEAH

RO

TIPPEAH





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BM X 4731

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Annex DEG [OPERATION
OPERATION PLAN 1-55

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BRIGAD

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BM X 4575

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BM X 4583

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MAP 79

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CHIEF OF STAFF

4879

4400

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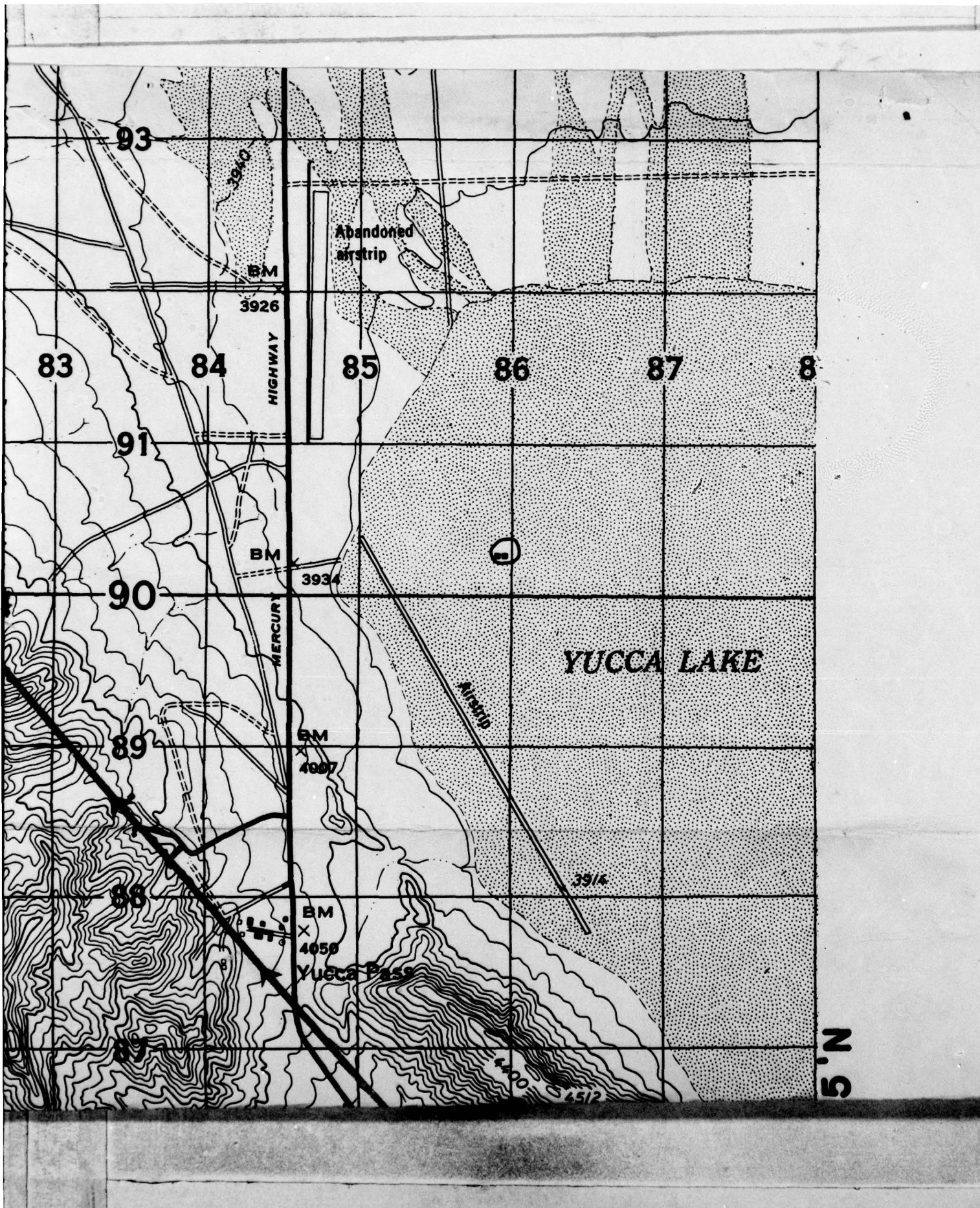
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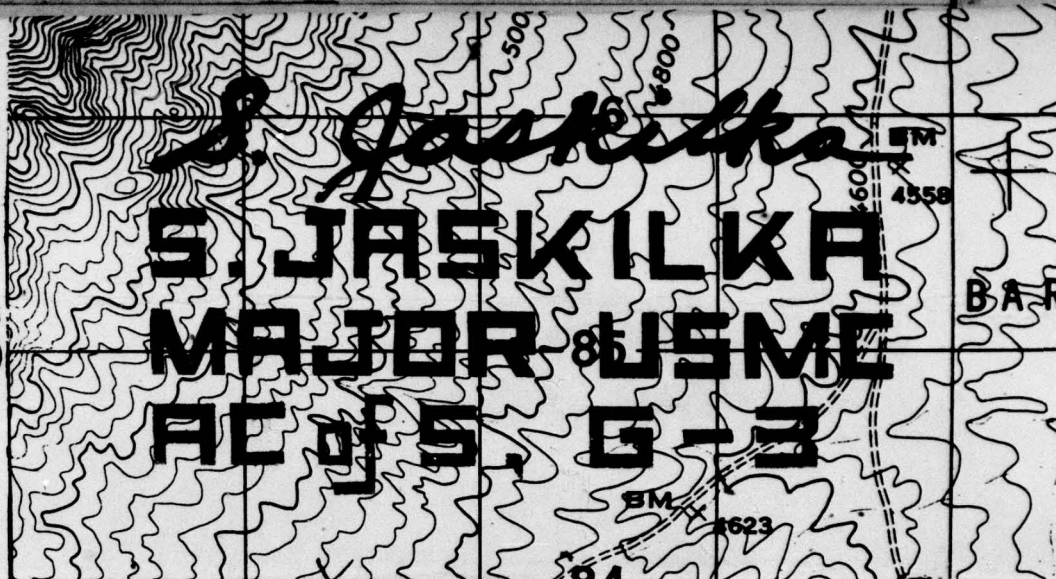
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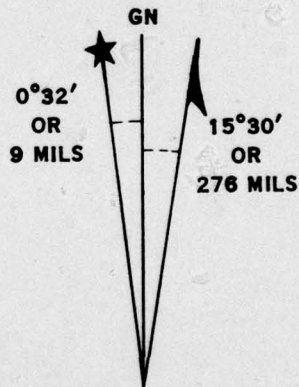
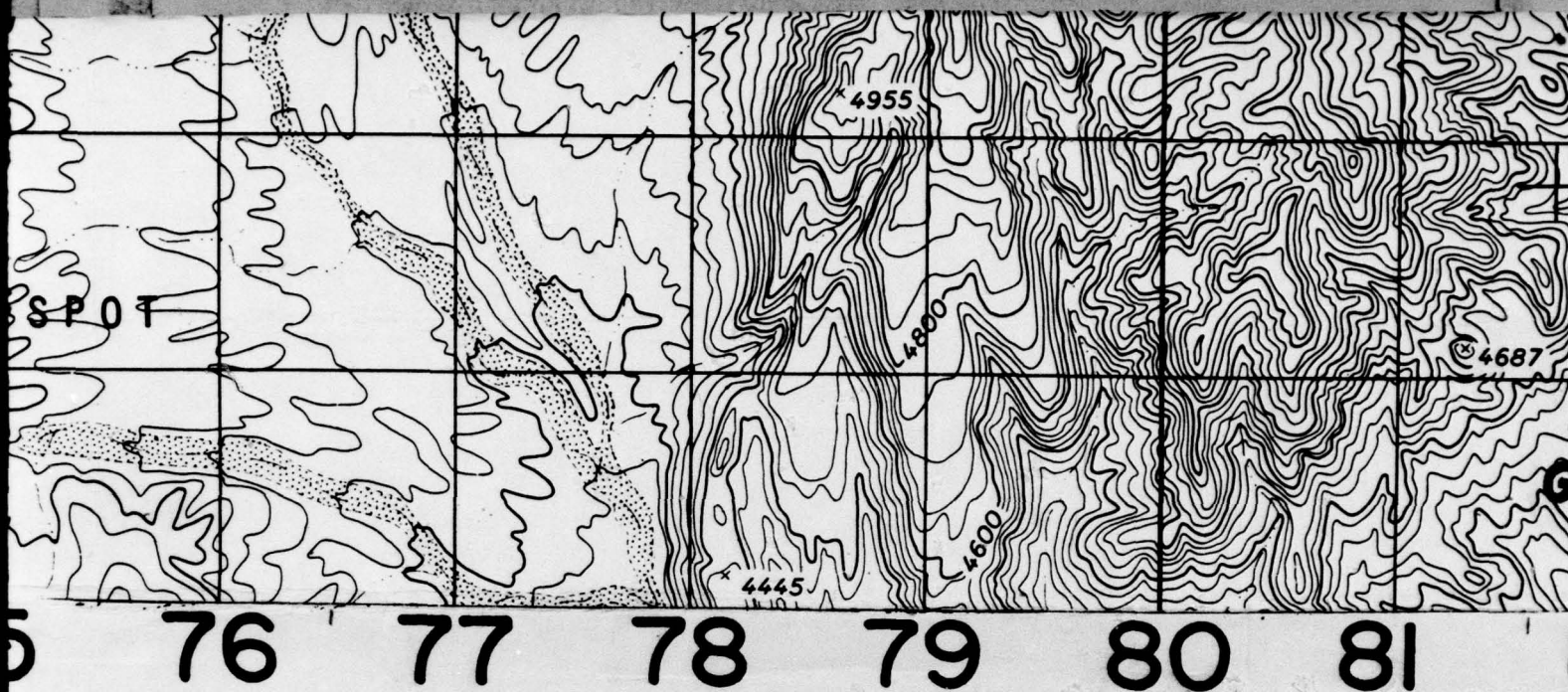
LEGEND

ROAD DATA 1952

Hard surface, heavy duty road, four or more lanes wide	<u>4 LANES</u> <u>6 LANES</u>	Improved light duty road, str
Hard surface, heavy duty road: Two lanes wide; Three lanes wide	<u>3 LANES</u>	Unimproved dirt road
Hard surface, medium duty road, four or more lanes wide	<u>4 LANES</u> <u>6 LANES</u>	Trail
Hard surface, medium duty road: Two lanes wide; Three lanes wide	<u>3 LANES</u>	Route markers: Federal; Stat
Buildings	.	Barns, sheds, greenhouses, st
RAILROADS		Bench mark, monumented
Standard gauge	Single track Multiple track	Bench mark, non-monumente
Narrow gauge		Spot elevations in feet: Chec
In street		Mines: Vertical shaft; Horizon
Carline		

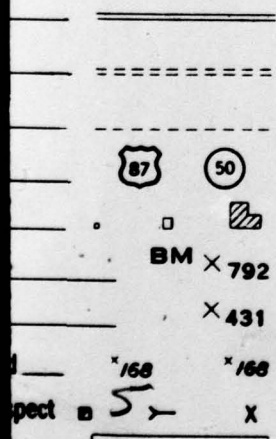
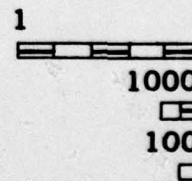
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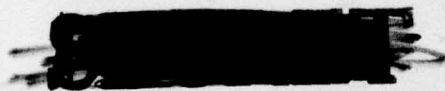
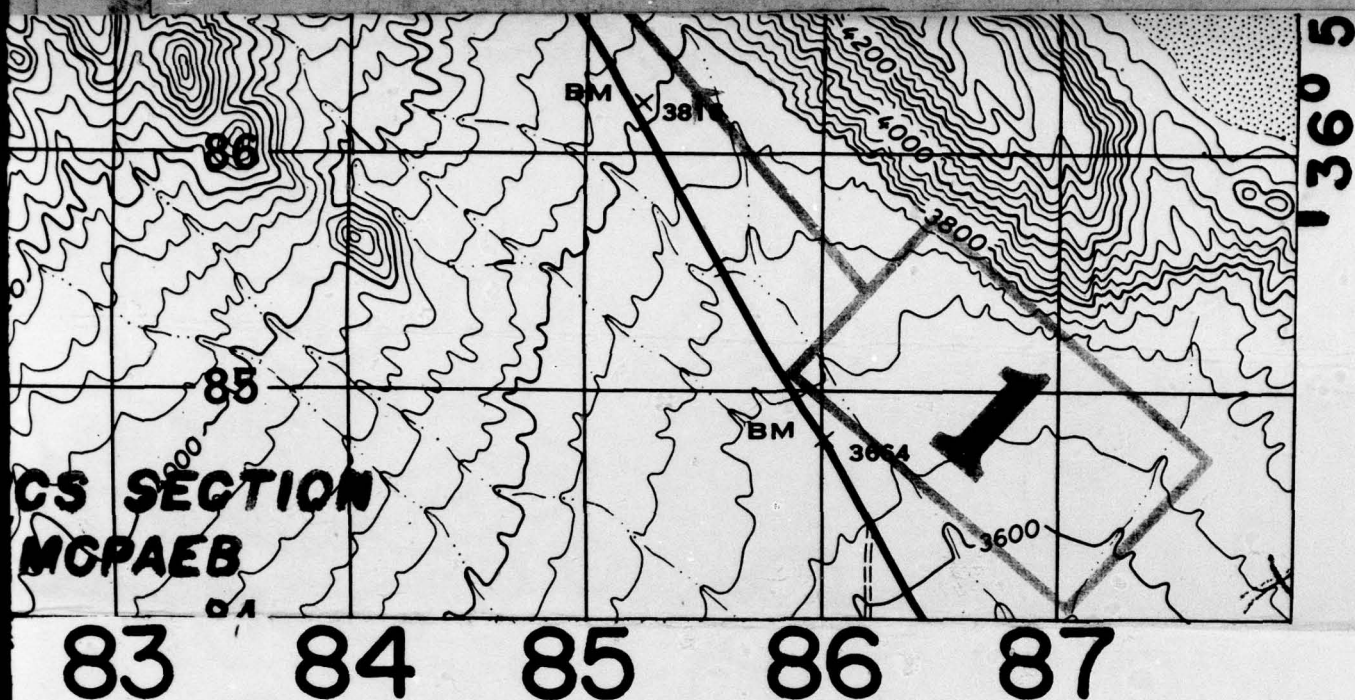




APPROXIMATE MEAN DECLINATION 1953
FOR CENTER OF SHEET
ANNUAL MAGNETIC CHANGE 3' WESTERLY

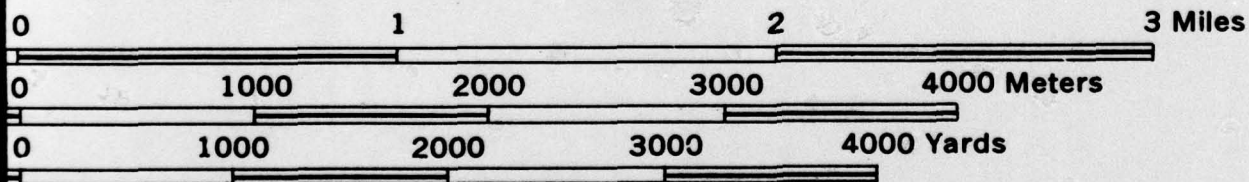
*Use diagram only to obtain numerical values.
To determine magnetic north line, connect the
pivot point "P" on the south edge of the map
with the value of the angle between GRID
NORTH and MAGNETIC NORTH, as plotted on
the degree scale at the north edge of the map.*





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SCALE 1:25:000



CONTOUR INTERVAL 40 FEET

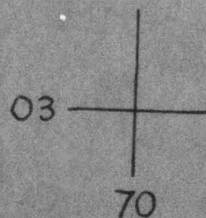
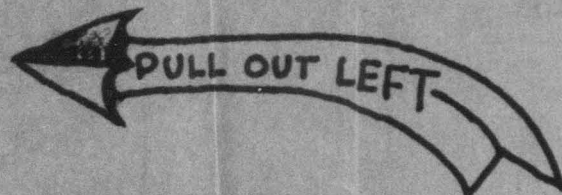
SUPPLEMENTARY CONTOURS AT 20 FOOT INTERVALS

VERTICAL DATUM: SEA LEVEL DATUM OF 1929

6 TRANSVERSE MERCATOR PROJECTION

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DASC
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NAN

"A"

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SUGAR

D+1 DAY

LANDING
ZONE

"C"

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WILLIAM

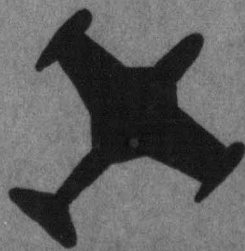
YOKE

YOKE

YOKE

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LANDING
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LOADING
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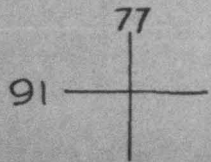
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2

YOKE

DIRECTION OF
N-NE

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231400U Feb 55



Appendix 5 (Air Operations Overlay) to Annex CHARLIE to
Operation Plan 1-55

Maps: Army Map Service (Corps of Engineers) Photographic
Maps, transverse Mercator Projection, AMS Series V796
(1:50,000) Sheets:

2757 I - Cane Spring
2758 II - Tippihah Spring

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#2

LOADING
ZONE

X-RAY

MERCURY HIGHWAY

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LOADING ZONE
#1
INITIAL LAUNCHING
SITE

(C3)

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Appendix I (Heliteam Priority Assignment) to Annex
EASY to Operation Plan 1-55 (Cont'd)

PHASE ZEBRA (CONT'D)

HELITEAM NUMBER	NO. OF TROOPS	HELICOPTER LOADS	COMPOSITION
5B 01 thru 22	80	22	3dPlat, D Co
5B 23	0	1	*Supplementary
5B 24 thru 36	45	13	H&S Co, 1stBn
5B 37 thru 40	16	4	75mmRGPlat (Less RR)
5B 41 thru 50	38	10	4.2" MortPlat (Less Mortars)
5B 51 thru 77	101	27	3dPlat, A Co and 2 HSU Men
5B 78	0	1	*Supplementary
5B 79	4	1	H&S-36 Crew Chiefs
TOTALS	284	79	

PHASE YOKE - II

2A 65C thru 79C	0	15	13 cases rations ea.
2A 80C thru 107C	0	28	11 5 gal. water cans ea.
2A 108C and 109C	0	2	11 cases .30 cal. blank ammo ea.
2A 110C and 111C	0	2	HSU CP Equipment
2A 112C thru 161C	0	50	17 Sleeping bags ea.
2A 162 and 163	8	2	HSU Men (Incl 1 HM)
TOTALS	8	99	

3B 51 thru 53	11	3	75mmRGPlat (Incl 3 RR)
3B 54 thru 56	12	3	4.2" MortPlat (Less Mortars)
3B 57C thru 63C	0	7	6 - 4.2" Mortars and FDC Equipment
3B 64C thru 69C	1	6	Bn CP Equipment
3B 70C thru 83C		14	6 PkHowitzers and B.C. Equipment
3B 84C thru 87C	1	4	Medical Supplies and 1 HM
3B 88	3	1	HSU Radio Team
TOTALS	28	38	

PHASE WILLIAM

AC 01 thru AC 12	48	12	2dPlat, A Co
------------------	----	----	--------------

* To be assigned at Camp Desert Rock if needed.

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appendix 1 (Heliteam Priority Assignment) to Annex
EASY to Operation Plan 1-55 (Cont'd)

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Annex FOX (Training Instructions) to Operation Plan
1-55

1. INFORMATION.

- a. Training for all elements of the task organization as applicable will be as prescribed in this Annex.
- b. Training means available are:
 - (1) Unit training areas.
 - (2) Relief map of exercise area.
 - (3) Rehearsal area, Camp Horno - Camp Talega.
 - (4) Helicopter mock-up area, Camp Horno.
 - (5) Helicopter landing site, Camp Horno.
 - (6) Camp Pendleton airfield.
 - (7) Training films and slides.
 - (8) Appropriate field manuals, technical manuals and pamphlets.

2. GENERAL PLAN.

The training mission of the 3d MCPAEB is to prepare individuals, units, and staffs prior to 18 March to perform their functions during Exercise Desert Rock VI - Marine Corps.

3. DETAILED PLAN.

Training for Exercise Desert Rock VI - Marine Corps will be divided into three phases as follows:

- a. Phase I. Preliminary training -- 31 January to 18 February.
 - (1) Mock-up training.
 - (a) Organization of heliteams.
 - (b) Slinging of arms and equipment, to include external loads.
 - (c) Embarkation and debarkation.
 - (d) Helicopter support unit training.
 - (e) Safety precautions.
 - (2) Helicopter training. (Advanced).
 - (a) Safety precautions.
 - (b) Loading, launching and landing by tactical organization. For planning purposes, consider the HRS-2 and HRS-3 will lift 850 and 1100 pounds respectively, exclusive of crew.

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- (c) Assault on hastily prepared defensive positions.
 - (d) Landing and employment of infantry supporting arms and command installations.
 - (e) Helicopter Support Unit training at Camp Horno.
- (3) Fixed Wing Training for ground task force elements. - 14 to 18 February. The purpose of this training is to prepare for the movement of personnel and equipment by fixed wing aircraft to the Indian Springs Air Force Base and return. It will be conducted in accordance with the schedule set forth in Appendix 1, at the Camp Pendleton airfield. Instruction will be given in loading and unloading procedures, safety precautions, and ditching instructions by MAJ-25 personnel.
- (4) Briefing. - 15 February. Certain officers and key NCO's of all elements of the task organization will be briefed on the mission of the Brigade, the detailed tactical plan, sequence of events, safety instructions, and instructions for subsequent rehearsals. (Appendix 1).
- (5) ABC Training.
- (a) Principles of atomic explosions.
 - (b) Effects of atomic weapons.
 - (c) Individual protection from atomic explosions.
 - (d) Medical aspects of nuclear radiation.
 - (e) Nuclear radiation and radiation detection (radiac) instruments and decontamination of personnel and equipment.
- (6) Cold weather training of one hour's duration will be given to prepare for the anticipated weather conditions in the exercise area. (Annex ABLE).
- (7) Air defense training of six hours duration will be given consisting of camouflage discipline (1 hour), aircraft recognition (3 hours), and employment of small arms against low flying aircraft (2 hours).
- (8) The helicopter training listed in subparagraphs (1) and (2) above will be covered prior to 19 February and will comprise not less than eight (8) hours of training time. (Appendix 1). The

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Annex FOX to Operation Plan 1-55 (Cont'd)

training listed in paragraphs (5), (6), and (7) above will be completed prior to departure for Camp Desert Rock, Nevada.

b. Phase II. Advanced Training. -- 14 February to 4 March.

- (1) Unit training for ground elements of the task organization, Camp Horno - Camp Talega area -- 14 to 18 February, to be conducted in accordance with the schedule set forth in paragraph I of Appendix 2. The purpose of this training period is to familiarize each individual with the tactical plan on ground resembling the actual maneuver area and to insure that each individual knows his specific duty, the route of his movement and all aspects of his part in Exercise Desert Rock VI - Marine Corps.
- (2) Rehearsals. Full scale rehearsals of the entire exercise in the Camp Horno - Camp Talega area on 23-24 February and 1-2 March. These rehearsals are a further step in the achievement of precision in the execution of the tactical exercise during Exercise Desert Rock VI - Marine Corps. It will be conducted as prescribed in paragraph II of Appendix 2.
- (3) Security Indoctrination of one hour's duration will be given during the week of 28 February for the purpose of instructing all Marines as to the security aspects of Exercise Desert Rock VI - Marine Corps. A brochure prepared by this headquarters will serve as the basis of this instruction and will be distributed to subordinate units by 21 February.
- (4) Maintenance of equipment and personnel inspection. -- 28 February to 4 March. A personnel and equipment inspection will be held by this headquarters for all elements of the task organization based at Camp Pendleton on 4 March in accordance with the instructions contained in paragraph III of Appendix 2. Elements of the task organization based at El Toro will be inspected by their respective commanders.

c. Phase III. Training at Camp Desert Rock and rehearsal at the Nevada Test Site -- 12 to 17 March. Training for all elements of the task organization encamped at Camp Desert Rock will be conducted. One rehearsal of the entire exercise will be conducted during this period and is scheduled for 14 March. Operation Plan 1-55 will be executed as briefed for this rehearsal.

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Annex FOX to Operation Plan 1-55 (Cont'd)

BY COMMAND OF BRIGADIER GENERAL EARNSHAW

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Appendices:

1. Detailed Scheduled Phase I training
2. Detailed Scheduled Phase II training

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Appendix 1 (Detailed Schedule Phase I training)
to Annex FOX to Operation Plan 1-55

1. HELICOPTER ASSIGNMENT.

- a. The assignment of helicopters will be in accordance with the following schedule:

DATE	TIME	NO. OF A/C	UNIT	REMARKS
31Jan	0900-1530	4 HRS	1stBn	Reporting
1Feb	0900-1530	4 HRS	1stBn	point for
2Feb	0900-1530	4 HRS	1stBn	helicopters
4Feb	0900-1100	4 HRS	1stBn	will be the
7Feb	0900-1530	4 HRS	1stBn	Athletic
8Feb	0900-1530	4 HRS	1stBn	Field, Camp
9Feb	0900-1530	4 HRS	1stBn	Horno.
10Feb	0900-1200	4 HRS	H&SCo	
10Feb	1300-1530	2 HRS	H&SCo	
10Feb	1300-1530	2 HRS	HSU	
11Feb	0900-1530	4 HRS	1stBn	
14Feb	0900-1200	4 HRS	75PkhHowBtry	
14Feb	1300-1530	4 HRS	4.2"MortPlat	
15Feb	0900-1530	4 HRS	1stBn	
16Feb	0900-1530	8 HRS	HSU; elements of other units	
17Feb	0900-1200	4 HRS	4.2"MortPlat	
17Feb	1300-1530	4 HRS	75PkhHowBtry	
18Feb	0900-1530	4 HRS	1stBn	

2. TRAINING WITH FIXED WING AIRCRAFT (R5D).

- a. Training with fixed wing aircraft will be conducted in accordance with the schedule set forth below. Personnel will be scheduled to arrive at the Camp Pendleton air field in groups of thirty-five (35) on the hour and half-hour. Approximately one-half (1/2) hour of instruction will be given each group.

DATE	ORGANIZATION	AIRFIELD		NO. OF MEN
		ARR	DEP	
14Feb	1stBn, MCTU #1	0800	1630	525
15Feb	1stBn, MCTU #1	0800	1630	525
16Feb	75PkhHowBtry, MCTU#1	0800	0930	105
	H&SCo, MCTU#1	0930	1500	315
	MarCampDet., Camp Desert Rock	1500	1630	105
17Feb	BrigEmbo & HSU	0800	1600	Cargo Trng.
	Stragglers	1600	1630	35

- b. Uniform: Utilities w/field boots, steel helmet w/camouflage cover (brown side out), transport pack, canteen, jungle kit, normal arms.
- c. Unit commanders will make direct liaison with the Brigade Motor Transport Officer for required transportation.

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Appendix 1 (Detailed Schedule Phase I training) to
Annex FCX to Operation Plan 1-55 (Cont'd)

- d. Unit commanders will caution all personnel not to smoke within fifty (50) feet of aircraft.
- e. The Brigade Embarkation Officer will arrange with individual units to train selected personnel in cargo handling and tie-down procedure.

3. BRIEFING

- a. A briefing for certain officers and key NCO's of the task organization will be held in the conference room, Building 53551, Camp Hornø, at 0900, 15 February. That conference room can accommodate approximately one-hundred (100) persons.

b. Quota.

3d MCPAEB Hq	45
H&S Co, 3d MCPAEB (less staff)	5
MAG-36 (-)	20
MAG-15 (-)	5
MASS-3 (-)	3
1stBn, MCTU #1	20
75mmPkHowBtry, MCTU #1	2
	<u>100</u>

- c. Personnel attending this briefing must have a security clearance of "secret" or higher.
- d. The Brigade staff will conduct the briefing.

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Appendix 2 (Detailed Schedule Phase II training) to
Annex FOX to Operation Plan 1-55 (Cont'd)

I UNIT TRAINING

Ref: (a) Camp Pendleton Map (SAN CLEMENTE SHEET),
1:25,000
(b) 3d MCPAEB Opn Plan 1-55

Encl: (1) Overlay showing rehearsal area.

1. Information. This training is prescribed to support Phase II training in preparation for Exercise Desert Rock VI - Marine Corps.

2. General Plan. To prepare units for rehearsals to be conducted in the Camp Horno - Camp Talega area on 23-24 February and 1-2 March by insuring that each individual knows his specific duty, the route of his movement and all aspects of his part in Exercise Desert Rock VI - Marine Corps.

3. Detailed Plan. This portion of Phase II training will be conducted on 16, 17 and 18 February. See enclosure (1) for location of zones and routes for troops and helicopters. See Annex ITEM for assignment of zone commanders and unit assignment to zones.

- a. LZ #1 Troops: 0730-0820, 16 February: Instruction at Camp Horno Athletic Field. 0830: Embark in trucks for movement to Landing Zones ABLE and BAKER. 0900-1020: Instruction at Landing Zones ABLE and BAKER. 1030: Embark in trucks for return to Camp Horno.
- b. LZ #5 Troops: 0730-0920, 16 February: Instruction at Camp Horno Athletic Field. 0930: March to Loading Zone #5. 1030-1200: Instruction at Loading Zone #5. 1200-1300: Lunch. 1300: Embark in trucks for movement to Landing Zone BAKER. 1330-1450: Instruction at Landing Zone BAKER. 1500: Embark in trucks for return to Camp Horno.
- c. LZ #2 Troops: 0730, 16 February: Assemble Battalion Parade Ground for movement to Loading Zone #2. 0800-0920: Instruction at Loading Zone #2. 0930: Embark in trucks for movement to Landing Zone ABLE. 1000-1050: Instruction at Landing Zone ABLE. 1100: Embark in trucks for return to Camp Horno.
- d. Brigade CP Troops: 0730, 17 February: Assemble Regimental Motor Park for movement to Brigade CP. 0800-0920: Instruction at CP area. 0930: Embark in trucks for return to Camp Horno.
- e. LZ #4 Troops: 0730-0920, 18 February: Instruction at Camp Horno Athletic Field. 0930: March to Loading Zone #4. 1030-1200: Instruction at Loading Zone #4. 1300: Embark in trucks for movement to Landing Zone ABLE.

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Appendix 2 (Detailed Schedule Phase II training) to
Annex FOX to Operation Plan 1-55 (Cont'd)

1330-1450: Instruction at Landing Zone ABLE.
1500: Embark in trucks for return to Camp Horno.

- f. LZ #3 Troops: 0730, 18 February: Assemble Battalion Parade Ground for movement to Loading Zone #3. 0800-0920: Instruction at Loading Zone #3. 0930: Embark in trucks for movement to Landing Zone BAKER. 1000-1050: Instruction at Landing Zone BAKER. 1100: Embark in trucks for return to Camp Horno.

x. Coordinating Instructions.

- (1) Zone Commanders will be in charge.
- (2) Crew served weapons will not be carried but will be simulated.
- (3) Conference of Zone Commanders, Camp Horno War Room - 1500, 11 February.
- (4) Uniform: Utilities w/field boots, steel helmets w/camouflage cover (brown side out), cartridge/pistol belt w/suspenders, canteen, jungle kit, entrenching tool, poncho (folded and looped over the back of the cartridge/pistol belt), normal arms.

4. a. Subordinate unit commanders will draw field rations to be served for the noon meal in Loading Zone #4 and Loading Zone #5.
 - b. Transportation will be arranged by this headquarters.
5. Loud speakers will be provided by this headquarters for instruction at Loading Zones #2, #3, #4, and #5, and Landing Zones ABLE and BAKER.

II REHEARSALS FOR EXERCISE DESERT ROCK VI - MARINE CORPS, CAMP HORNO - CAMP TALEGA AREA

1. Purpose. The purpose of these rehearsals is to prepare elements of the task organization for participation in Exercise Desert Rock VI - Marine Corps.

2. General Plan.

- a. All elements of the task organization, less the Marine Camp Detachment, Camp Desert Rock, will participate in these rehearsals to be conducted in the Camp Horno - Camp Talega area on 23-24 February and 1-2 March. All aspects of the forthcoming exercise will be duplicated to the maximum practicable extent. These instructions are effective for the second rehearsal on 1-2 March.
- b. Enclosure (1) shows the location of zones, helicopter routes, Camp Horno assembly areas, and route of march to the bivouac areas. For assignment of Zone Commanders and unit assignment to zones see Annex ITEM.

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Appendix 2 (Detailed Schedule Phase II training) to
Annex FOX to Operation Plan 1-55 (Cont'd)

- c. Annex ITEM covers the special instructions to control the conduct of all troops within the Nevada Test Site and is in effect for these rehearsals.

3. Detailed Plan.

- a. Commanding Officers of all elements of the task organization will:

- (1) Direct their troops and organic vehicles to report to the appropriate Zone Commander at 1330, R-minus-1-Day at the Camp Horno assembly areas shown on enclosure (1).
- (2) At MIKE-Hour on R-Day, execute reference (b) as briefed for this rehearsal.
- (3) Upon completion of the tactical portion of the rehearsal, and on orders of this headquarters, assemble troops at the appropriate assembly area shown on enclosure (1). Conduct instruction to cover the movement to the materiel display area. March troops and dispatch vehicles back to Camp Horno.

- b. Zone Commanders will:

- (1) On order, R-minus-1-Day, march assigned troops as routed to the areas indicated on enclosure (1) except the Loading Zone #4 and #5 troops who, after assembly, will be given final instructions to include the handling of sleeping bags, time of reveille, time of reassembly, etc., and then dismissed.
- (2) On order, R-minus-1-Day, direct assigned organic vehicles containing equipment and crew served weapons to proceed to the appropriate bivouac area using the route shown on enclosure (1).
- (3) Upon arrival at the assigned bivouac area on R-minus-1-Day encamp troops for the night, except Loading Zone #4 and #5 troops who will sleep in the barracks.
- (4) Maintain strict control of troops at all times and be prepared to conduct a muster of troops at any time after 2200, R-minus-1-Day.
- (5) Permit no fires during the night. (Canned heat may be used).
- (6) Be prepared to conduct simulated pre-shot activities commencing at H-minus-1-Hour on R-Day as directed. (Annex ITEM).

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Appendix 2 (Detailed Schedule Phase II training) to
Annex FOX to Operation Plan 1-55 (Cont'd)

c. The Brigade Electronics-Communication Officer will, prior to darkness on R-minus-1-Day:

- (1) Lay wire as previously instructed.
- (2) Provide Public Address Systems at the Brigade CP, MAG-36 CP, DASC, Loading Zones #2, #3, and the simulated trench zone.
- (3) Activate a control net at 1330 on R-minus-1-Day as briefed.

d. Coordinating Instructions.

- (1) The rehearsal of the tactical exercise will commence at H-minus-1-Hour (0550) on R-Day. 3d MCPAEB Operation Plan 1-55 will be executed as briefed for this rehearsal.
- (2) Rehearsal Day (R-Day) - 24 February and 2 March.
- (3) MIKE-Hour -- The exact time on R-Day at which the helicopters bearing the first assault troops are launched from the initial launching site. This time will be announced by the Brigade Commander. (Tentatively set at 0700 for the rehearsal).
- (4) HOW-Hour -- The precise instant on R-Day at which the detonation of a nuclear weapon is simulated. (Tentatively set at 0650 for the rehearsal).
- (5) Radio silence below 225 megacycles from H-minus-1-Hour to H-plus-15-minutes on R-Day. Equipment affected by radio silence will be turned off during silence period.
- (6) A critique will be held in the War Room, Camp Horns at 1400, R-Day. Commanders of all elements of the task organization, less the Commanding Officer, MAG-15 will attend, and may bring such officers as they desire.
- (7) Unit commanders will cause a thorough police of the rehearsal area to be made prior to departure therefrom.

4. Administrative and Logistics.

- a. Uniform: Utilities w/boots (trousers bloused), steel helmet w/camouflage cover (brown side out), jungle kit, canteen, cartridge/pistol belt w/suspenders, entrenching tool, and with poncho folded over the back of the cartridge/pistol belt, jacket, field w/o liner, gloves, normal arms.

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Appendix 2 (Detailed Schedule Phase II training) to
Annex FOX to Operation Plan 1-55 (Cont'd)

b. Handling of sleeping bags.

- (1) Sleeping bags will be rolled and inserted in the waterproof bag, tagged with the individual's name and unit, and stacked by unit according to assigned zone. The Helicopter Support Unit Commander will provide at least one (1) guard for the sleeping bags in the area behind the flagpole and for those to be stacked behind "A" Company.
- (2) Movement of sleeping bags will be handled by the Helicopter Support Unit as follows:
 - (a) From Camp Horno to bivouac areas by vehicle on R-minus-1-Day, except for those troops assigned to Loading Zone #4 and Loading Zone #5. The sleeping bags of all troops, except those assigned to Loading Zone #4 and Loading Zone #5, will be stacked as prescribed above in the area south of the Camp Horno Flag Pole, prior to 1300, R-minus-1-Day. Troops assigned to Loading Zone #4 and Loading Zone #5 will stack their sleeping bags as prescribed in 4.b.(1) above on the parade ground in rear of "A" Company during the period from 0001 and HOW-minus-1-Hour on R-Day.
 - (b) From Loading Zone #1 and parade ground in rear of "A" Company (Loading Zone #4 and Loading Zone #5) to Loading Zone #2 by vehicle commencing at H-plus-1-Hour on R-Day.
 - (c) From Loading Zone #2 and Loading Zone #3 to Landing Zone ABLE by helicopter on order on R-Day.
 - (d) From Brigade CP and Landing Zone ABLE to Camp Horno upon completion of rehearsal. Each company size unit will leave one Marine behind to guard their sleeping bags. He will return to Camp Horno aboard trucks carrying the sleeping bags.

c. Handling of all classes of supply (less sleeping bags).

- (1) Pallets will be used but the cargo will be simulated.
- d. Operational ration, type "C" will be fed to troops for the evening meal on R-minus-1-Day and the morning and noon meals on R-Day, except those troops assigned to Loading Zone #4 and Loading Zone #5. Troops assigned to Loading Zone #4 and Loading Zone #5 will eat

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Appendix 2 (Detailed Schedule Phase II training) to
Annex FOX to Operation Plan 1-55 (Cont'd)

all meals in the messhall except the noon meal on R-Day which will be an operational ration, type "C", eaten in the field. Unit commanders will direct their designated collection agent to collect the cost of these rations from all persons on commuted rations and all officers and turn in such monies to the Brigade Accountable Officer prior to 1000, R-minus-1-Day. The Helicopter Support Unit Commander will obtain and deliver the appropriate number of rations to the Zone Commanders prior to 1600, R-minus-1-Day.

- e. 1st Battalion, MCTU #1 will be prepared to serve the noon meal on R-minus-1-Day to not only the normal complement but also to the MAG-36 (-) and MASS-3 (-) troops, and to resume serving the normal complement the evening meal on R-Day.
- f. The rear echelon will take over the Camp Horno Guard at 0800, R-minus-1-Day and will be relieved at 0800, R-plus-2-Days.

III PERSONNEL AND WEAPONS INSPECTION

1. Information.

- a. The Commanding General, 3d MCPAEB will conduct an inspection of all ground personnel and weapons on 4 March.
- b. The purpose of this inspection is to ascertain the material and personnel readiness of ground units for participation in Exercise Desert Rock VI - Marine Corps in order that existing deficiencies may be corrected prior to departure for the exercise area.

2. General Plan.

- a. Ground units of the 3d MCPAEB will be organized for inspection as set forth in the Task Organization.
- b. Uniform for the inspection will be: Utilities w/field boots, steel helmet w/camouflage cover (brown side out), pistol/cartridge belt, suspenders, jungle kit, canteen, entrenching tool, poncho (folded and looped over the rear of the pistol/cartridge belt, normal arms. (Rifles will be slung over the right shoulder).
- c. Weapons. All crew served weapons that are to be used in the exercise will be displayed for inspection in the vicinity of the unit concerned and prepared for inspection in all respects.

3. Detailed Plan.

- a. Formation for inspection will be as prescribed by unit commanders.

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Appendix 2 (Detailed Schedule Phase II training) to
Annex FCX to Operation Plan 1-55 (Cont'd)

- b. All units will be at open ranks ready for inspection upon the arrival of the inspecting party.
- c. Units will be inspected in accordance with the following schedule:

<u>UNIT</u>	<u>COMMANDING</u>	<u>PLACE</u>	<u>TIME</u>
1stBn (Reinf), MCTU #1	LCol NELSON	Bn Parade Ground	0830
75mmPkHowBtry, MCTU #1	Capt KOSTER	Btry Parade Ground	1030
H&SCo, 3d MCPAEB (-)	Capt VAN DEN BERG	Bn Parade Ground	1300
HSU, 3d MCPAEB	Capt WARREN	Btry Parade Ground	1430

- d. All personnel will wear their Identification Tags (Dog Tags) and will display them between the second and third buttons of the utility jacket. Identification Cards will be held in the left hand and shown to the inspecting officer.
- e. The inspecting party will be composed as follows:
- Commanding General, 3d MCPAEB
Chief of Staff
Assistant Chief of Staff, G-3
Assistant Chief of Staff, G-4
Medical Officer
Sergeant Major
- f. A briefing for the inspecting party will be held at 1500, 3 March in Building 53351, Camp Horns by the Chief of Staff.

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Annex GEORGE (Radiological Safety) to Operation Plan
1-55

Time Zone: UNCLE

1. General.

- a. This Annex establishes radiological safety procedures for Exercise Desert Rock VI - Marine Corps to minimize hazard and to gather data relative to:
 - (1) Dosimetry.
 - (2) Monitoring.
 - (3) Decontamination.
- b. The 50th Army Chemical Platoon establishes a vehicle and personnel decontamination station at YUCCA PASS.
- c. Deputy Exercise Director provides vehicular transportation required.
- d. CG, Aircraft, FMF Pacific provides radiological safety support for MAG-15 (-).

2. Execution.

- a. Dosimetry.
 - (1) Film Badges and Dosimeters will be issued to all elements of the task organization less MAG-15 (-) by this headquarters at Camp Desert Rock and will be worn in accordance with instructions to be given at Camp Desert Rock.
- b. Monitoring.
 - (1) Two (2) monitoring teams of the 1st Battalion, MCTU #1 will be embarked in one (1) helicopter preceding by three (3) minutes the initial lift of troops from Loading Zone #1.
 - (2) Monitoring teams will accompany the assault force to objectives NAN, SUGAR and WILLIAM. Upon seizure of those objectives a complete area survey will be conducted and the results reported to this headquarters by operational immediate message.
 - (3) An emergency regimental monitor team of MCTU #1 will be located in Loading Zone #2. In the event the helicopters bearing the monitor teams in the initial wave fail to reach Landing Zones ABLE and BAKER this emergency monitor team will accomplish the monitor mission. If this becomes necessary all other airborne helicopters will be ordered to orbit over the refueling points until the emergency monitor team can be lifted to accomplish the mission before landing the initial wave as planned.

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Annex GEORGE (Radiological Safety) to Operation Plan
1-55 (Cont'd)

- (4) MASS-3 (-) and MAG-36 (-) will monitor their respective areas and report any radiological contamination to this headquarters.
- (5) Individual monitors and ABC Defense Officers and NCOs will be equipped as follows:

Film Badge	Self-reading dosimeter
Message book	Compass
Protective Mask, M9A1	Nevada Test Site
	Tactical Map, 1:25,000
	(2 sheets)

- (6) Monitor teams will be equipped with one (1) RADIAC instrument.

a. Decontamination.

- (1) Decontamination of troops, vehicles and equipment shall be accomplished in three stages, as follows:

Stage 1: Prior to entrucking from the display area on D-plus-1-Day, all troops, equipment and vehicles will be swept off downwind and then surveyed for radiation contamination. If maximum intensity cannot be reduced below 20 mr/hr, the marine, equipment or vehicle concerned will be ordered to the forward decontamination station at YUCCA PASS. Transportation and brooms will be provided by this headquarters.

Stage 2: Stage 2 decontamination, if necessary, will be conducted at YUCCA PASS.

Stage 3: Upon return to Camp Desert Rock, Commanders of all elements of the task organization (less MAG-15 (-)) will ensure that all troops, equipment, and vehicles are decontaminated. All troops will take showers.

x. Special Instructions.

- (1) The Maximum Permissible Exposure established for Exercise Desert Rock VI - Marine Corps is six (6) Roentgens, of which no more than three (3) Roentgens may be initial radiation.
- (2) Prior to HOW-Hour on D-Day, all troops possessing film badges will place them in their left breast pocket with the numbers on the badge facing outward from the body.
- (3) Instructions for the period immediately prior to and following HOW-Hour: Annex ITEM.

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Annex GEORGE (Radiological Safety) to Operation Plan
1-55 (Cont'd)

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- (4) Because of the danger of radioactive contamination in the display area, objects in the vicinity of ground zero will not be touched.
- (5) RADIAC instruments will not be placed in direct contact with the ground at any time. Should it become necessary to put the instrument down, an uncontaminated material will be placed between the instrument and the ground.
- (6) Troops whose duties require them to enter contaminated areas in the Nevada Test Site will check with this headquarters for Radiological Safety information.

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Annex HOW (Emergency Evacuation Plan) to Operation
Plan 1-55

Time Zone: UNCLE

1. PURPOSE. To outline the procedure to be followed in the event evacuation of the forward area of the Nevada Test Site becomes necessary during Exercise Desert Rock VI - Marine Corps. The code designation for this emergency evacuation is "CONDITION RAIN".

2. GENERAL. This Brigade will be prepared to evacuate the forward area of the Nevada Test Site at any time during D-Day. The Deputy Exercise Director furnishes the vehicles and MP control required to execute this plan.

a. The direction of evacuation will be to the south to one of the following designated places:

- (1) Emergency Assembly Point EASY.
(Appendix 1)
- (2) Check Gate No. 2, Camp Mercury (914605).
- (3) Camp Desert Rock.

b. Brigade helicopters will be prepared to assist in the evacuation as directed by this headquarters.

3. EXECUTION. Upon receipt of word that "CONDITION RAIN" has been set, subordinate unit commanders and/or zone commanders will be informed by the most readily available means.

a. In the trench area, the signal will be given by a siren which will sound groups of seven (7) short blasts with 30-second intervals between groups. Commander, Brigade Troops Entrenched will carry out the instructions of the Deputy Exercise Director who is located in the Command Trench.

b. Subordinate unit commanders and/or zone commanders will:

- (1) Immediately assemble and muster their troops.
- (2) Inform them of "CONDITION RAIN".
- (3) Notify this headquarters of the number of troops under their charge.
- (4) Move out to the appropriate embarkation point. (Appendix 1).
- (5) Carry out the instructions of this headquarters.

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Annex HOW (Emergency Evacuation Plan) to Operation
Plan 1-55 (Cont'd)

- (6) Upon arrival at the place designated (para 2.a. above), ascertain the degree of exposure of all his troops and if decontamination is required, this headquarters will be notified immediately and further instructions will be given.
- x. (1) Emergency embarkation points are indicated on Appendix 1 in circles numbered 1 through 4.
- (2) Maximum speed of vehicles will be 35 MPH.
- (3) Command, MP and Medical Vehicles will have road priority during the evacuation.
- (4) Windows in vehicles will be closed where practicable.
- (5) Troops will not eat or smoke during evacuation.

4. MEDICAL EVACUATION.

- a. Casualties will be evacuated to the Medical Detachment, Camp Desert Rock.
- b. Route of evacuation will be the most direct route available.

BY COMMAND OF BRIGADIER GENERAL EARNSHAW

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Appendix

1. Emergency Evacuation Embarkation Points

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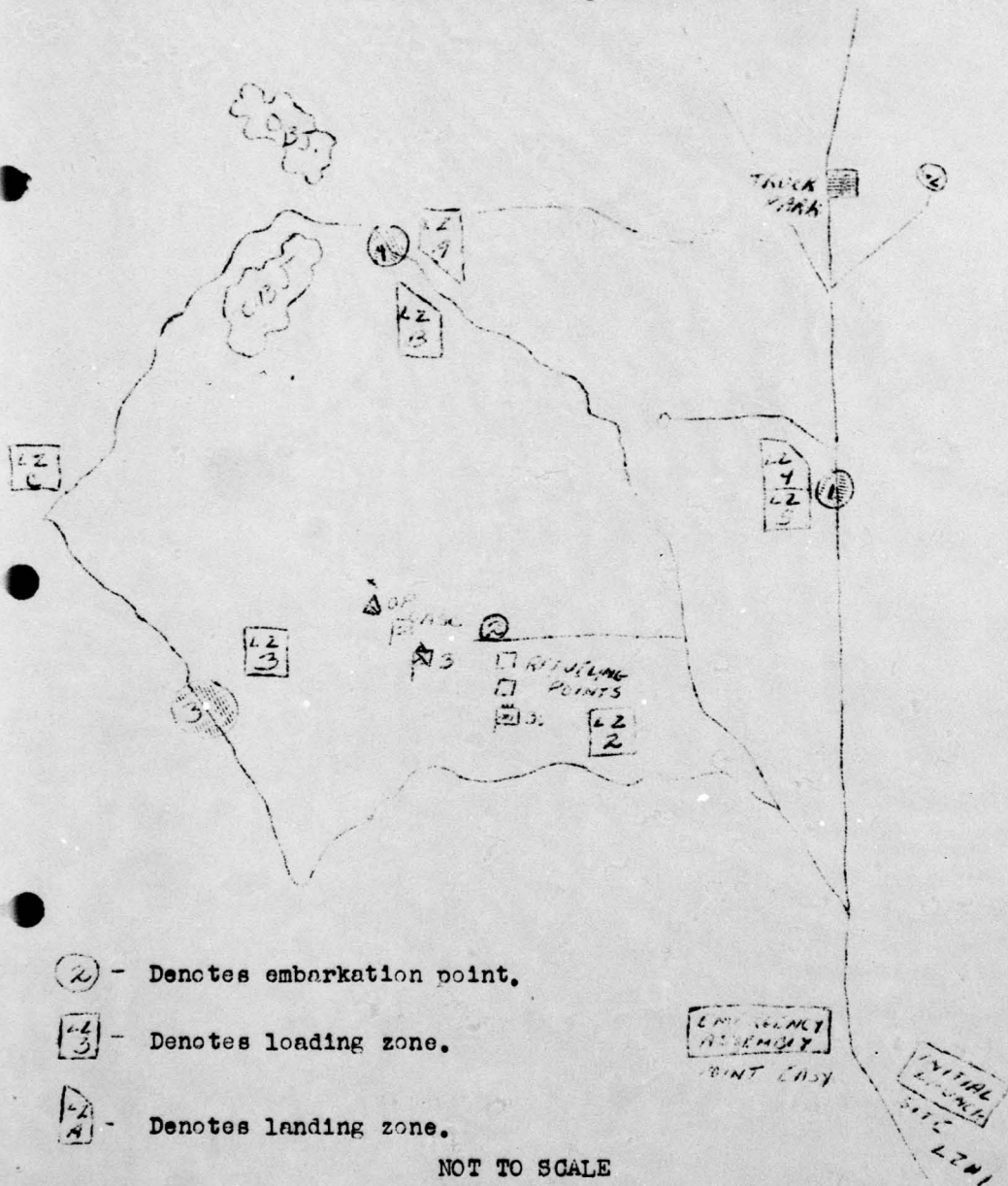
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Appendix 1 (Emergency Evacuation Embarkation Points)
to Annex HOW to Operation Plan 1-55



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Annex ITEM (Special Instructions) to Operation Plan
1-55

Time Zone: UNCLE

1. PURPOSE

- a. To set forth special instructions for the control and safety of all troops within the Nevada Test Site.
- b. To set forth instructions for the movement of troops to the materiel display area at the conclusion of the tactical exercise.

2. GENERAL

- a. Assignment of Zone Commanders and unit assignment to zones: Appendix 1.
- b. Movement of troops from Camp Desert Rock to deployment positions within the Nevada Test Site as shown in Annex DOG: Annex MIKE (to be published at Camp Desert Rock).

3. EXECUTION

- a. On order, Commanding Officers of all elements of the task organization, less MAG-15 (-), will direct their troops and organic vehicles to report to the appropriate Zone Commander at the places shown in Annex MIKE.
- b. On order, Zone Commanders will move assigned troops to deployment positions within the Nevada Test Site shown on Annex DOG, and in accordance with instructions contained in Annex MIKE.
- c. Zone Commander, Brigade Troops Entrenched will:
 - (1) Carry out the instructions of the Control Group Commander. (a representative of Deputy Exercise Director).
 - (2) Prior to occupying trenches, instruct troops that two (2) minutes prior to HOW-Hour a 30-second siren signal will be sounded. At this time the troops will crouch in their entrenchments well below the surface of the ground and remain in that position until the announcement to rise is made over the PA system.
- d. Zone Commanders, Zones #2, #3, Brigade CP, MAG-36(-), and MASS-3(-) will:
 - (1) Carry out the instructions of this headquarters.

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Annex ITEM (Special Instructions) to Operation Plan
1-55 (Cont'd)

- (a) At five minutes prior to HOW-Hour, Zone Commanders will be directed to instruct all troops to face to the south and to sit down.
- (b) At three minutes prior to HOW-Hour, Zone Commanders will be directed to instruct all troops to shield their eyes with their hands or arms and remain seated in that position facing south until the announcement to rise is made.
- e. On order on D-plus-1-Day, Commanding Officers of all elements of the task organization, less MAG-15 (-), will assemble their troops at the assembly areas shown on Annex DOG where the troops will be embarked in vehicles for the move to the area in the vicinity of ground zero to observe the effects of shot BEE on the displayed materiel. (Annex MIKE).

x. Coordinating Instructions

- (1) Commanding Officers of all elements of the task organization, less MAG-15 (-) will insure that all troops are familiar with the provisions of the radiological safety program. (Annex GEORGE).
- (2) Zone Commanders and Commanding Officers are responsible to insure strict control of troops at all times and will be prepared to conduct a muster upon order of this headquarters. A final muster will be held at HOW-Hour-minus-1-hour and a report made to this headquarters.
- (3) Troops will be cautioned not to touch any items in the equipment display area or in the vicinity of ground zero.
- (4) There will be no fires within the Nevada Test Site.
- (5) There will be no movement within the Nevada Test Site after 2200 on D-minus-1-day, except as directed by the Brigade Commander.
- (6) This headquarters will provide five (5) instructors in the area of ground zero to explain the effects of shot BEE on the displayed materiel.

4. COMMUNICATIONS

The Brigade Communications Officer will provide Public Address Systems at all zones, except zones #1, #4 and #5, and the trench area.

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Annex ITEM (Special Instructions) to Operation Plan
1-55 (Cont'd)

BY COMMAND OF BRIGADIER GENERAL EARNSHAW

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Appendix

1. Assignment of Zone Commanders and Unit
Assignment to Zones.

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Appendix 1 (Assignment of Zone Commanders and Unit assignment to Zones) to Annex ITEM to Operation Plan 1-55

Time Zone: UNCLE

1. Zone Commanders and units are assigned to the following zones as indicated.

ZONE	COMMANDER	TROOP UNIT	NO. OF TROOPS
Brig CP	Capt VAN DEN BERG	H&SCo	158
MAG-36(-) CP	LCol OWENS	MAG-36(-)	90
MASS-3(-) CP	Maj O'MALLEY	MASS-3(-)	42
LZ#1	LCol FORD 1stLt SIMMS (Asst)	1stBn (Reinf) PIO HSU MAG-36(-) TOTAL	96 9 1 39 145
LZ#2	LCol NELSON Capt KELLY (Asst)	1stBn (Reinf) HSU MAG-36(-) MCTU#1 MedPers TOTAL	193 45 23 12 273
LZ#3	1stLt DAY	1stBn (Reinf) 75mmRGPlat 75mmPkHowBtry 4.2"MortPlat HSU MAG-36(-) MCTU#1 MedPers TOTAL	184 11 12 12 18 9 1 247
LZ#4	Capt JONES	1stBn (Reinf) 75mmPkHowBtry HSU MAG-36(-) TOTAL	206 61 (1 HM) 36 4 307
LZ#5	Capt NICHOLS	1stBn (Reinf) 75mmRGPlat 4.2"MortPlat MAG-36(-) HSU TOTAL	228 17 36 4 2 287
TRENCH ZONE	Maj BLEDSE	LZ#4 LZ#5 MarCampDet MAG-36(-) PIO TOTAL	307 287 157 20 4 775

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Appendix 1 (Assignment of Zone Commanders and Unit
assignment to Zones) to Annex ITEM to
Operation Plan 1-55 (Cont'd)

BY COMMAND OF BRIGADIER GENERAL EARNSHAW

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Annex JIG (Reports) to Operation Plan 1-55

Ref: (a) CMC ltr 003A31654 of 8Dec54 (SECRET)

Time Zone: UNCLE

1. The following daily reports will be submitted to this headquarters by all elements of the task organization and the brigade staff sections as indicated, commencing 10 March.

<u>TYPE REPORT</u>	<u>WHEN SUBMITTED</u>	<u>NO. OF COPIES</u>
Unit Report	2000 as of 1600	1
G-1,2,3,4 Periodic Reports	2000	1
Strength Report	0800	2
Disciplinary Report	As required	1

2. a. All elements of the task organization will submit a written report (2 copies) of Exercise Desert Rock VI - Marine Corps to this headquarters by 0800, D-plus-10 Day, covering the following phases:
- (1) Planning.
 - (2) Training.
 - (3) Movement to Camp Desert Rock.
 - (4) Conduct of the exercise.
- b. Within each phase discuss all significant problems encountered. List the conclusions reached and make appropriate constructive recommendations.
- c. The Brigade Photographic Officer will prepare a photographic report covering the training for and conduct of the exercise.
- d. The following staff officers will submit reports covering Brigade activities normally supervised by their sections:

G-1, G-2, G-3, G-4

3. The Brigade G-3 will be responsible for preparation of the report of the exercise required by reference (a).

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Annex KING (Photography and Public Information) to
Operation Plan 1-55

Time Zone: UNCLE

1. Purpose. - To outline the Photographic and Public
Information Plan for this operation.

2. Task Organization. -

- a. Representative to Atomic Energy Commission Test
Site Field Office, (Joint AEC-DOD Information
Center), LAS VEGAS, Nevada: LtCol M. T. WETTON,
USMCR.
- b. Public Information Officer: Maj L. A. MORGAN,
USMCR
- c. Photographic Officer: CWO J. D. RODGERS, USMC.
 - (1) Team No. 1 (4 photographers).
 - (2) Team No. 2 (5 photographers).
 - (3) Team No. 3 (5 photographers).

3. Mission. -

- a. To service appropriate media with the greatest
facility with information relative to Marine
Corps participation in Exercise DESERT ROCK VI.
- b. To obtain a limited documentary and training
film record of Marine Corps participation in
Exercise DESERT ROCK VI.

4. Public Information Plan. -

- a. Provide news coverage, including photographs,
press releases, and recorded interviews as
follows:
 - (1) At Camp DESERT ROCK during pre-shot period.
 - (a) Black and white, and color stills of
camp activities such as briefings,
indoctrinations, and camp life.
 - (b) General news release of troop
arrivals, to include photographs.
 - (2) On Shot-day.
 - (a) Newsworthy color and black and white
photographs of troops in action
within the Nevada Test Site, including
such subjects as helicopter operations
and ground units advancing on objectives.
 - (b) One news release including samples
of spontaneous reactions after de-
briefing of participants in trench
area training.

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Annex KING (Photography and Public Information) to
Operation Plan 1-55 (Cont'd)

- (c) Tape recorded interviews, on general impressions only, with the Brigade Commander, important observers and representative Marines, after debriefing of participants in trench area training.
 - (3) Post-Shot (with release earliest possible time after HOW-Hour on D-Day).
 - (a) Round-up press release with black and white photographs.
 - (4) Special Press Interviews.
 - (a) Pre-shot interview of Brigade Commander by press representatives at AEC Test Site Field Office in LAS VEGAS, Nevada.
 - (b) Post-shot interview of selected personnel by press representatives at AEC Test Site Field Office in LAS VEGAS, Nevada.
 - (5) General.
 - (a) Release to appropriate media of suitable film taken under plan described in paragraph 5. below.
5. Photographic Plan for Documentary and Training Films.
(Black and white, and color stills, and 35mm color picture footage with sound).
- a. Photography of operations.
 - (1) Briefings, indoctrinations, and staff functioning at Camp DESERT ROCK.
 - (2) The exercise of control of tactical air and ground units before and after an atomic explosion. (Nevada Test Site)
 - (3) Other significant phases of the overall air-ground operation within the Nevada Test Site.
 - b. Photography to record the effects of an atomic explosion on military equipment and clothing.
 - (1) Still coverage of the 78 displays located in the demonstration materiel area, consisting of ordnance, electronic, engineer, motor transport and general supply items. Photographs to be taken as seen from the direction of ground zero both prior to and subsequent to detonation.
 - (2) 35mm sound coverage of personnel briefing at demonstration materiel area both prior to and subsequent to detonation.

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Annex KING (Photography and Public Information) to
Operation Plan 1-55 (Cont'd)

6. Location of Photography Teams within the Nevada Test Site. - See Appendix 1.

7. Special Movement of Personnel and Equipment immediately after HOW-Hour on D-Day.

- a. Team No. 2 moves via vehicle from Loading Zone #1 to Brigade CP at about MIKE-Hour-plus-30-minutes.
- b. Team No. 1 moves via vehicle from Trench Area to Landing Zone ABLE after HOW-Hour, and when cleared by Deputy Exercise Director, Exercise DESERT ROCK VI.
- c. LtCol WETTON moves via vehicle from Trench Area to Camp MERCURY as soon after HOW-Hour as practicable.
- d. See Annex DOG to Operation Plan for location of points and areas.

BY COMMAND OF BRIGADIER GENERAL EARNSHAW

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Appendix:

1. Location of Photography Teams within the Nevada Test Site.

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Appendix 1 (Location of Photography Teams within the Nevada Test Site) to Annex KING to Operation Plan 1-55

LOCATION ¹	DAY	TIME	TEAM NO.	TYPE PHOTO COVERAGE	REMARKS
Loading Zone #1	R-Day ² & D-Day	MIKE-Hour	3	Helicopters airborne	Team 3 airlifted to Zone ABLE
	D-Day	HOW-1 Hour	2	Preloading formations; troop loading; launching	Team 2 to CP via truck immediately after MIKE-Hour
Trench area	R-Day	HOW-1 Hour	1 Man Team 1	Troop entry, indoctrination, instruction	
	D-Day	HOW-1 Hour	1	Troop reactions	Team 1 to Zone ABLE via truck when cleared.
Loading Zone #3	R-Day	MIKE ² /2 Hours	1 Man Team 1	Airlift of arty and mortars	
Objective N.A.N	D-Day	MIKE ² /1 Hour	3	Combined assault maneuvers	

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 Appendix 1 (Location of Photography Teams within the Nevada Test Site) to Annex KING to Operation Plan 1-55 (Cont'd)

LOCATION	DAY	TIME	TEAM NO.	TYPE PHOTO COVERAGE	REMARKS
Landing Zone ABLE	D-Day	w/assault troops	3	Troop unloading, re-grouping, assault	Team 3 moves with troops to objective NAN; on D+1 Day to Zone CHARLIE via truck.
	D-Day	MIKE+1 Hour	1	Activities at CP of assault troops; forward air control operations	
Demonstration Material area	R-Day	Walk-thru time	1 & 2	Troop instruction and indoctrination	
	D+1 Day	1300U Hours	1 & 2	Personnel de-briefing	
CP Area	R-Day	HOW-2 Hours	1 & 2	CP activities; DASC operations	Teams 1 & 2 move to Demonstration Material Area with troops
	D-Day	MIKE+1 Hour	2	CP activities; DASC operations	
Landing Zone CHARLIE	D+1 Day	1000U Hours	3	Air delivery operation	

NOTES: 1. See Annex DOG to Operation Plan 1-55 for location of points and areas.
 2. Rehearsal day.

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Appendix 1 (Location of Photography Teams within the Nevada Test Site) to Annex KING to Operation Plan 1-55 (cont'd)

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F/6 18/3

EXERCISE DESERT ROCK VI. OPERATION 1-55. MARINE CORPS. THIRD MA--ETC(U)

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Annex LOVE (Communication--Electronics) to Operation Plan 1-55

MAPS: Nevada Test Site, Tactical Map, 1:25,000
(2 sheets)

Nevada, 1:50,000, AMS Series: V796, Sheets
2757 I II IV, 2758 II and III, 2857 III and
IV, 2858 III

Ozalid Plan Drawing, Nevada Test Site,
1:125,000

Time Zone: UNCLE

1. SITUATION

a. Enemy Forces.

(1) Annex ABLE (Intelligence) and intelligence summaries as issued.

b. Friendly forces.

(1) Operation Plan 1-55, 3d MCPAEB.

(2) Command Posts and axis of communications:

3d MCPAEB	Annex DOG
MAG-15 (-)	MCAAS, Mojave, Calif.
MAG-36 (-)	Annex DOG
MCTU #1	Annex DOG
HSU	Annex DOG

(3) CG, Camp Desert Rock provides essential communication services for 3d MCPAEB at Camp Desert Rock.

2. MISSION

a. Communication-electronic troops support 3d MCPAEB during operations in the Nevada Test Site by providing communications commencing D-minus-1-Day.

b. Concept of Operation.

Annex BAKER (Concept of Operation and Sequence of Events).

3. EXECUTION

a. Detachment MASS-3 (-).

On D-minus-1-Day establish DASC communications in accordance with Appendix 1, this Annex.

b. Communication Platoon, MCTU #1.

(1) On D-minus-1-Day establish and maintain communications at Brigade CP.

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Annex LOVE (Communications-Electronics) to Operation Plan 1-55 (Cont'd)

(2) Be prepared on order to extend wire lines from Brigade CP to objective area.

c. MAG-15 (-).

Radio communications in accordance with Appendix 1, this Annex.

d. MAG-36 (-).

Radio communications in accordance with Appendix 1, this Annex.

e. HSU.

Radio communications in accordance with Appendix 1, this Annex.

f. Air support communications.

Annex CHARLIE (Air Operations).

x. Coordinating instructions.

(1) Messenger. Make maximum use normal flow of helicopters.

(2) Radio.

(a) Radio silence from H-minus-1-Hour to H-plus-15 minutes on all frequencies below 225 megacycles.
EQUIPMENT AFFECTED WILL BE TURNED OFF DURING PERIOD OF RADIO SILENCE.

(b) Radio calls: Appendix 4, this Annex and Annex CHARLIE (Air Operations).

(3) Wire.

(a) Telephone Switchboard code names:

3d MCPAEB	MONROE
MAG-36 (-)	LADYS MAN
MCTU #1	CRABTREE
DASC	PEEPSIGHT

(4) Visual.

See appendix 3, this Annex.

(5) Sound.

See appendix 3 this Annex.

(6) Cryptographic.

No cryptographic aids will be carried.

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Annex LOVE (Communications-Electronics) to Operation Plan 1-55 (Cont'd)

(7) Authentication.

- (a) See Appendix 2, this Annex.
- (b) Authentication will not be used between air and ground forces.
- (c) Message setting "CONDITION RAIN" must be authenticated.

(8) Shackle code.

See Appendix 2, this Annex.

- (9) The text of messages which concern MCTU #1 Training Order 14-55 will be preceded and ended with the code name of that operation.

4. ADMINISTRATION AND LOGISTICS

- a. Administrative Plan 1-55.
- b. Emergency signal repair facilities available in immediate vicinity 3d MCPAEB CP.

5. COMMUNICATIONS-ELECTRONICS

- a. Communications in accordance with NWP 16, and appropriate Joint Allied, and Navy Department Publications. NWP 16 and NWIP 16-1 are effective throughout as applicable to the existing situation unless modified or amplified by this Annex. The interpretation as to the applicability of a specific article is a function of the command concerned.
- b. Brigade Communications-Electronic Officer with Command Post group.

BY COMMAND OF BRIGADIER GENERAL EARNSHAW

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Chief of Staff

Appendices:

- 1. Radio Frequency Plan
- 2. Authentication and Shackle Ciphers
- 3. Visual and Sound
- 4. Call Signs

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Appendix 1 (Radio Frequency Plan) to Annex LOVE to
Operation Plan 1-55

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Appendix 1 (Radio Frequency Plan) to Annex LOVE to
Operation Plan 1-55

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Appendix 2 (Authentication and Shackle Cipher) to
Annex LOVE to Operation Plan 1-55 (Cont'd)

GRID #12 (Cont'd)

ENCIPHER	DECIPHER
5 F A L V	F-5 P-2 Z-8
6 H M	G-Ø Q-1
7 E Y	H-6 R-2
8 Z O	I-3 S-4
9 K C	J-1 T-Ø

GRID #13 (Cont'd)

ENCIPHER	DECIPHER
5 P I G E	F-Ø P-5 Z-1
6 B H	G-5 Q-2
7 U J	H-6 R-Ø
8 W O	I-5 S-9
9 S C	J-7 T-3

GRID #14

ENCIPHER	DECIPHER
Ø D G K P Y	A-6 K-Ø U-1
1 F U W	B-9 L-8 V-4
2 N Z	C-3 M-5 W-1
3 C I	D-Ø N-2 X-6
4 J V	E-5 O-5 Y-Ø
5 E M O S	F-1 P-Ø Z-2
6 A X	G-Ø Q-9
7 R T	H-8 R-7
8 L H	I-3 S-5
9 B Q	J-4 T-7

GRID #15

ENCIPHER	DECIPHER
Ø A F M P H	A-Ø K-1 U-9
1 T V K	B-5 L-9 V-1
2 D J	C-8 M-Ø W-3
3 W S	D-2 N-7 X-5
4 I E	E-4 O-5 Y-6
5 O R X B	F-Ø P-Ø Z-8
6 Y Q	G-7 Q-6
7 N G	H-Ø R-5
8 C Z	I-4 S-3
9 U L	J-2 T-1

GRID #16

ENCIPHER	DECIPHER
Ø G L B T K	A-2 K-Ø U-7
1 F N S	B-Ø L-Ø V-2
2 V A	C-5 M-5 W-4
3 J Q	D-8 N-1 X-7
4 W Y	E-5 O-8 Y-4
5 C I M E	F-1 P-6 Z-6
6 P Z	G-Ø Q-3
7 X U	H-9 R-9
8 O D	I-5 S-1
9 H R	J-3 T-Ø

GRID #17

ENCIPHER	DECIPHER
Ø L H E O V	A-5 K-5 U-1
1 B P U	B-1 L-Ø V-Ø
2 R W	C-9 M-3 W-2
3 M Z	D-6 N-6 X-4
4 G X	E-Ø O-Ø Y-5
5 S K A Y	F-9 P-1 Z-3
6 D N	G-4 Q-8
7 J T	H-Ø R-2
8 I Q	I-8 S-5
9 C F	J-7 T-7

GRID #18

ENCIPHER	DECIPHER
Ø G J N S V	A-3 K-9 U-3
1 L P Y	B-2 L-1 V-Ø
2 B D	C-8 M-5 W-7
3 U A	D-2 N-Ø X-5
4 H R	E-9 O-6 Y-1
5 F M X Z	F-5 P-1 Z-5
6 Q O	G-Ø Q-6
7 I W	H-4 R-4
8 C T	I-7 S-Ø
9 E K	J-Ø T-8

GRID #19

ENCIPHER	DECIPHER
Ø B L E J D	A-2 K-3 U-1
1 Z U N	B-Ø L-Ø V-4
2 A Q	C-6 M-5 W-7
3 F K	D-Ø N-1 X-8
4 R V	E-Ø O-8 Y-9
5 M P S I	F-3 P-5 Z-1
6 C H	G-9 Q-2
7 T W	H-6 R-4
8 X O	I-5 S-5
9 G Y	J-Ø T-7

GRID #20

ENCIPHER	DECIPHER
Ø W N J C K	A-4 K-Ø U-2
1 B F Q	B-1 L-5 V-8
2 O U	C-Ø M-5 W-Ø

GRID #21

ENCIPHER	DECIPHER
Ø D I O R W	A-6 K-2 U-3
1 E T X	B-4 L-3 V-5
2 Q K	C-8 M-7 W-Ø

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Appendix 2 (Authentication and Shackle Cipher) to
Annex LOVE to Operation Plan 1-55

1. The shackle cipher is prescribed for use on voice circuits, to provide a rapid means of enciphering numerals in plain language transmissions. It shall be used on voice circuits to encipher numerals whose transmission in plain language would be detrimental to security.
2. The cryptographic security of the shackle cipher is inherently low. It is designed for tactical use when speed of delivery precludes the encryption of the entire message. Extreme care must be exercised in its use to prevent compromise of the cipher key.
3. The "indicator" for the shackle cipher is "SHACKLE", which shall preface any numeral or numeral series enciphered in this system. The term "UNSHACKLE" will be placed at the end of the enciphered numerals.
4. The same grid will be used for the same GMT date of consecutive months unless subsequent editions are made effective.
5. The shackle cipher grid changes on GMT date.

EXAMPLE: Grid No. 1 will become effective at 010001GMT. (1600, Zone UNCLE)
6. Use of the shackle cipher system is described in detail in each edition of PAC 6. Directions prescribed therein shall be carefully followed. Shackle grids contained in Paragraph 7 will be used in order to avoid compromise of effective editions of PAC 6.
7. The following shackle grids will be used during the period 10 March to 21 March.

GRID #10

ENCIPHER

Ø M E V L Z
1 F O G
2 S U
3 J X
4 N B
5 W Q D Y
6 A K
7 P T
8 I H
9 C R

DECIPHER

A-6 K-6 U-2
B-4 L-Ø V-Ø
C-9 M-Ø W-5
D-5 N-4 X-3
E-Ø O-1 Y-5
F-1 P-7 Z-Ø
G-1 Q-5
H-8 R-9
I-8 S-2
J-3 T-7

GRID #11

ENCIPHER

Ø S H E P Y
1 Z N B
2 I R
3 W O
4 T F
5 U J C X
6 Q L
7 A V
8 K G
9 M D

DECIPHER

A-7 K-8 U-5
B-1 L-6 V-7
C-5 M-9 W-3
D-9 N-1 X-5
E-Ø O-3 Y-Ø
F-4 P-Ø Z-1
G-8 Q-6
H-Ø R-2
I-2 S-Ø
J-5 T-4

GRID #12

ENCIPHER

Ø T N B G W
1 X Q J
2 P R
3 D I
4 U S

DECIPHER

A-5 K-9 U-4
B-Ø L-5 V-5
C-9 M-6 W-Ø
D-3 N-Ø X-1
E-7 O-8 Y-7

GRID #13

ENCIPHER

Ø K F N R X
1 L A Z
2 Q V
3 T D
4 Y M

DECIPHER

A-1 K-Ø U-7
B-6 L-1 V-2
C-9 M-4 W-8
D-3 N-Ø X-Ø
E-5 O-8 Y-4

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Appendix 2 (Authentication and Shackle Cipher) to
Annex LOVE to Operation Plan 1-55 (Cont'd)

GRID #20 (Cont'd)

ENCIPHER

3 G P
4 A Z
5 M T I L
6 R Y
7 D H
8 V S
9 X E

DECIPHER

D-7 N-Ø X-9
E-9 O-2 Y-6
F-1 P-3 Z-4
G-3 Q-1
H-7 R-6
I-5 S-8
J-Ø T-5

GRID #21 (Cont'd)

ENCIPHER

3 L U
4 B Y
5 J F P V
6 A G
7 M S
8 C N
9 H Z

DECIPHER

D-Ø N-8 X-1
E-1 O-Ø Y-4
F-5 P-5 Z-9
G-6 Q-2
H-9 R-Ø
I-Ø S-7
J-5 T-1

8. Challenge and reply authentication is used to authenticate transmissions on a circuit and indicate that the transmitted message is bonafide. This shall be used under the following circumstances:

- a. When there is evidence or suspicion of enemy deception.
- b. Upon request of a transmitting or receiving station.

9. Messages which must be authenticated are:

- a. Contact reports and amplifying reports made by voice or CW.
- b. All combat orders sent by message.
- c. Messages in plain language or in low security cryptographic systems on CW circuits.
- d. Operating signals, prosigns, and other messages or radio signals which require another station to break radio silence in order to receipt or otherwise transmit.
- e. Messages of cancellation when transmitted unclassified.
- f. Any FLASH message cancelling any type of alert.
- g. Any message setting "CONDITION RAIN".

10. The tables in Paragraph 11. will be in effect within this command and become effective on GMT date. (1600U Daily)

11. AUTHENTICATION TABLES

- a. The following authentication tables are authorized for employment during this operation in order to avoid compromise of effective tables contained in AFSAL 5357. To meet minimum requirements, only two tables have been prepared for use on odd (Table #1) and even (Table #2) days. Local reproduction of additional tables is authorized, if required. Use of training authentication tables will be in accordance with the instructions contained in AFSAG 1267A.

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Appendix 2 (Authentication and Shackle Cipher) to
Annex LOVE to Operation Plan 1-55 (Cont'd)

AUTHENTICATOR TABLE NO. 1

0-A	M	K	E	L	D	J	F	I	G	X	Y	B	W	C	Z	V	H	U	T	R	A	S	O	Q	N	P
1-B	G	D	Q	F	W	Y	P	A	E	X	O	I	B	U	J	C	Z	K	L	V	H	N	T	S	R	M
2-C	U	A	I	J	V	B	T	S	R	G	C	H	Z	Q	F	D	P	N	O	E	W	M	Y	K	L	X
3-D	F	Z	G	Y	Q	A	B	X	N	O	P	C	U	M	D	L	E	K	W	R	I	T	J	V	S	H
4-E	Z	H	G	I	Y	X	F	W	J	E	K	L	D	U	M	T	C	N	B	O	Q	S	V	A	P	R
5-F	E	S	R	F	T	Q	U	A	P	V	G	W	B	X	O	Y	H	N	D	M	I	L	J	K	Z	C
6-G	D	S	F	Y	E	X	R	Q	C	P	H	I	G	T	J	U	B	V	O	W	K	Z	L	M	A	N
7-H	G	H	B	I	Z	W	Y	D	X	V	J	T	A	U	S	K	R	E	M	N	C	O	L	P	F	Q
8-I	Q	C	R	Z	P	S	A	T	O	N	B	U	G	D	M	E	L	K	F	V	Y	I	J	W	H	X
9-J	Z	S	D	R	Q	C	T	P	O	B	V	U	A	W	N	X	E	Y	M	F	L	K	G	J	H	I
/-K	Z	Y	A	X	W	F	T	G	O	C	V	H	S	E	R	I	J	D	P	K	U	L	N	M	Q	R
L	A	K	H	I	X	G	J	W	F	L	Y	M	V	C	R	N	S	Z	D	O	E	P	T	Q	U	B
M	Y	F	G	X	E	W	H	V	D	U	I	T	C	S	J	R	B	Q	K	P	L	O	A	N	M	Z
N	I	K	J	M	L	N	A	Z	P	V	O	Q	B	U	R	Y	C	T	H	S	D	W	E	G	F	X
O	W	V	H	G	A	F	U	J	T	I	R	S	Q	C	B	D	P	O	E	N	X	Z	K	M	L	Y
P	I	H	J	G	F	X	K	W	C	V	T	E	D	U	L	S	Z	B	Y	M	R	Q	A	P	N	O
Q	S	T	G	R	A	F	U	E	V	H	W	B	D	I	X	J	Q	C	Z	K	Y	P	O	L	N	M
R	A	L	M	S	N	I	X	B	O	R	P	Q	U	W	C	V	Y	H	T	D	G	Z	F	J	K	E
S	Z	G	H	R	D	S	Y	F	Q	I	E	P	J	T	L	U	O	B	V	K	C	M	W	A	N	X
T	C	U	D	V	E	T	A	B	R	K	W	L	F	X	M	G	N	H	O	I	Y	J	Z	S	P	Q
U	M	N	L	O	K	P	Q	A	R	J	S	I	T	U	B	V	H	W	C	X	G	Y	Z	D	F	E
V	G	H	Z	F	Y	I	W	U	V	A	X	T	J	S	C	R	K	Q	B	P	E	L	N	D	M	O
W	I	U	W	H	T	J	E	S	G	V	R	C	X	L	F	P	K	A	Y	M	Z	D	N	B	O	Q
X	H	T	X	S	I	R	C	J	G	K	F	L	Q	P	N	D	M	O	U	Z	B	W	V	Y	E	A
Y	O	Q	R	P	A	N	S	L	M	B	K	I	J	H	T	Z	C	G	U	F	V	Y	X	W	D	E
Z	A	Z	R	S	C	Y	Q	B	T	P	J	O	K	L	D	U	M	H	I	G	N	F	V	W	E	X

First test element: The second character of the call sign of the receiving station (or in the case of multiple call the second character of the first receiving stations call sign).

Second test element: The last character of the text.

NOTE: These test elements shall be used only in transmission authentication. Two random letters are used as test elements in challenge and reply authentication.

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Appendix 2 (Authentication and Shackle Cipher) to
Annex LOVE to Operation Plan 1-55 (Cont'd)

AUTHENTICATOR TABLE NO. 2

0-A	Y	D	F	E	Z	A	K	J	I	G	H	N	B	R	S	Q	T	C	U	P	V	L	O	W	M	X
1-B	N	A	Z	M	O	E	L	Y	G	P	K	C	Q	H	X	F	W	J	V	D	U	R	I	S	B	T
2-C	B	J	C	V	I	D	Z	F	A	Y	G	X	E	S	R	T	K	N	L	U	W	H	Q	M	P	O
3-D	E	G	D	P	F	Z	N	O	Y	C	J	X	H	Q	M	W	B	L	R	I	S	V	K	T	A	U
4-E	T	P	Q	Y	O	S	R	X	A	U	J	N	I	V	B	H	G	K	F	Z	L	M	E	W	C	D
5-F	C	Z	L	M	B	Y	N	E	X	K	W	U	D	J	O	I	P	A	T	H	V	G	Q	S	F	R
6-G	S	R	D	T	Q	A	U	P	E	O	C	N	Z	F	Y	M	X	B	L	W	K	H	I	G	J	V
7-H	R	G	S	B	T	I	H	V	Q	U	A	W	O	X	J	P	D	N	Y	K	C	L	Z	F	M	E
8-I	B	Q	R	A	P	D	S	O	C	N	E	T	M	U	G	V	L	W	F	X	K	Y	H	J	Z	I
9-J	W	M	N	B	L	U	Z	F	K	J	E	I	Y	H	P	G	R	S	Q	A	T	O	D	V	X	C
/-K	X	M	L	B	K	U	N	V	J	D	I	T	S	P	O	R	Q	E	H	Y	F	W	Z	A	C	G
L	N	C	M	Z	B	L	Y	X	D	K	O	Q	A	J	P	S	I	E	H	R	U	G	T	V	F	W
M	W	D	R	C	V	O	T	I	H	X	Z	S	E	R	F	Q	P	U	G	J	N	M	A	K	L	Y
N	Y	F	C	A	N	G	X	D	W	K	J	U	V	T	I	H	Z	S	R	L	B	M	Q	P	O	E
O	R	D	Q	E	P	C	N	O	T	M	F	S	X	L	B	U	K	G	V	J	A	I	W	Y	H	Z
P	S	R	E	A	Z	D	Q	C	B	Y	I	F	H	G	P	X	L	T	O	U	K	J	N	W	M	V
Q	T	V	A	U	C	W	K	I	J	X	G	E	F	L	Y	H	M	Z	R	B	S	D	N	Q	O	P
R	I	B	H	W	T	G	C	F	U	S	V	X	E	D	Y	P	R	N	Q	O	Z	L	J	A	K	M
S	A	G	X	W	L	K	V	U	T	S	H	F	C	E	Z	I	R	O	M	J	N	Q	P	Y	B	D
T	L	Z	N	E	A	D	M	X	K	O	Y	F	P	R	H	Q	C	B	S	I	T	G	U	W	J	V
U	J	I	Z	K	G	B	H	Y	F	D	E	L	U	C	T	S	M	V	R	A	Q	W	P	N	O	X
V	H	I	Z	G	Q	P	R	J	O	F	N	M	L	K	Y	E	X	C	D	W	B	V	S	U	A	T
W	G	H	F	Z	I	Y	E	X	W	N	D	M	O	L	J	K	U	A	T	Q	P	R	C	B	S	V
X	L	N	O	F	E	M	P	X	H	I	G	W	Y	Q	V	J	Z	R	K	T	S	U	B	A	D	C
Y	C	Z	E	W	D	V	Y	U	B	X	F	A	S	L	M	K	G	J	T	N	O	I	H	P	R	Q
Z	Y	M	N	K	L	O	J	P	X	A	I	W	H	F	B	V	G	C	T	U	S	D	R	E	Z	Q

First test element: The first character of the call
sign of the transmitting station.

Second test element: The second character of the text.

NOTE: These test elements shall be used only in
transmission authentication. Two random
letters are used as test elements in challenge
and reply authentication.

BY COMMAND OF BRIGADIER GENERAL EARNSHAW

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Colonel, U. S. Marine Corps
Chief of Staff

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Appendix 3 (Visual and Sound) to Annex LOVE to Operation Plan 1-55

VISUAL SIGNALS

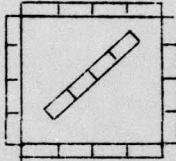
1. GENERAL

- a. General instructions for the use of visual signals are contained in Section V, Chapter 8, ACP 129.

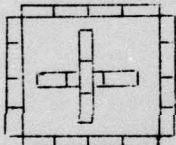
2. Unit identification panel symbol designation will be in effect during the period 10 March to 21 March.

- a. The following assignments are in effect:

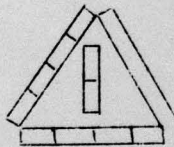
- (1) Marine Brigade.



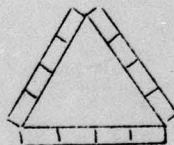
- (2) Marine Brigade Hospital or Evacuation Station.



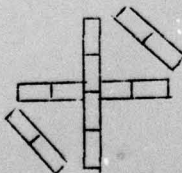
- (3) Marine Regiment or Group.



- (4) Marine Battalion or Squadron.



- (5) Marine Company or Battery.



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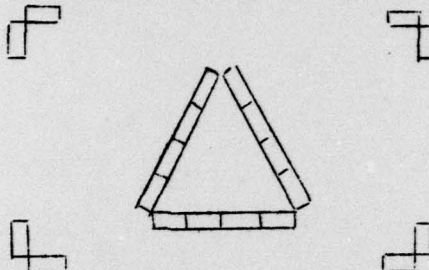
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 Appendix 3 (Visual and Sound) to Annex LOVE to Operation Plan 1-55 (Cont'd)

- b. When practicable, corner panels will be used in conjunction with the above designators to indicate the limits of helicopter landing points. The following is an example of a landing point for a Marine Battalion showing landing point limits:



- c. Panels VS-4/U, 5/U or 6/U will be used. Four (4) panels are to be used for each main leg. If panels VS-4/U, 5/U or 6/U are not available, panel sets AP-30-(C) or (D) may be employed.

3. MISCELLANEOUS VISUAL SIGNALS

- a. Aircraft Maneuver signals.

<u>AIRCRAFT MANEUVER</u>	<u>MEANING</u>
360° left turn	Request CP identification
Alternate dips and climbs	Request front line Markings
Rock wings	Message understood
Yaw right and left	Am going to drop message
360° right turn	Mission completed.
Sharp S-turn	Will support you - indicate target
Circle right, rocking wings	Message not understood - repeat
Circle left, rocking wings	Am trying to contact you on radio

SOUND WARNING SIGNALS

1. GENERAL.

- a. General instructions for the use of sound signals are contained in Section II, Chapter 8, ACP 129.

2. AIR RAID WARNING SIGNALS.

- a. Sound warning signals.

- (1) Alarm: Ten-second blasts on a horn or whistle repeated at five-second intervals for a period of three minutes; or a fluctuating siren signal of three-minute duration. Sounded on receipt of a "FLASH RED" message.

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Appendix 3 (Visual and Sound) to Annex LOVE to Oper-
ation Plan 1-55 (Cont'd)

(2) All Clear: Three steady one-minute blasts on horn, whistle, or siren, interrupted by silent periods of two minutes each. Sounded on receipt of "FLASH WHITE" message.

(3) No sound signal is to be sounded for a "FLASH YELLOW" condition since this condition is advisory in nature.

b. Alert conditions.

<u>RADIO/WIRE</u>	<u>MEANING</u>
"WARNING RED"	Air attack imminent; enemy aircraft in vicinity.
"WARNING YELLOW"	Air attack probable; unidentified aircraft in vicinity.
"WARNING WHITE"	All clear; aircraft identified as friendly, or hostile aircraft no longer in vicinity.

3. MECHANIZED ATTACK WARNING SIGNALS.

a. Sound warning signals.

- (1) Mechanized attack imminent; three (3) blasts of whistle, vehicular horn, siren or klaxon, or three (3) bursts of machine gun fire.
- (2) All Clear: Single long blast on whistle or vehicular horn of one-minute duration.

b. Alert conditions.

<u>RADIO/WIRE</u>	<u>MEANING</u>
Condition ABLE MIKE ONE	Attack by enemy mechanized forces imminent; enemy armor in vicinity.
Condition ABLE MIKE TWO	Enemy mechanized forces have closed with friendly front lines.
Condition ABLE MIKE THREE	Enemy mechanized forces have withdrawn.

4. AIRBORNE ATTACK WARNING SIGNALS.

a. Sound Warning signals.

- (1) Same as for mechanized attack.

b. Alert conditions.

<u>RADIO/WIRE</u>	<u>MEANING</u>
Condition ABLE BAKER ONE	Attack by enemy airborne forces imminent; enemy aircraft identified as airborne force in vicinity.

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Appendix 3 (Visual and Sound) to Annex LOVE to Operation Plan 1-55 (Cont'd)

RADIO/WIRE

MEANING

Condition ABLE BAKER TWO Enemy airborne forces are landing in Force.

Condition ABLE BAKER THREE Enemy airborne forces have withdrawn.

5. ABC ATTACK WARNING SIGNALS

a. Sound warning signals.

- (1) Percussion sounds such as those produced by bells, triangles, iron rails, empty cartridge cases, or M1 Gas Alarm, struck rapidly and continuously, followed by cry of:

"SPRAY" for gas, biological, or radiological airplane spray attacks. The cry "SPRAY" is then followed by the word:

"GAS" - for chemical attack or
"GERMS" - for biological attack or
"ATOMS" - for radiological attack.

"GAS" for warnings of gas attacks other than "SPRAY"

"GERMS" for warnings of biological attack other than "SPRAY"

"ATOMS" for warnings of radiological or atomic attacks other than "SPRAY"

b. Alert conditions.

RADIO/WIRE

MEANING

Condition ORANGE ONE Chemical attack in progress
Condition ORANGE TWO Chemical attack imminent
Condition ORANGE THREE Chemical attack probable

Condition PINK ONE Radiological attack in progress
Condition PINK TWO Radiological attack imminent
Condition PINK THREE Radiological attack probable

Condition GREY ONE Biological attack in progress
Condition GREY TWO Biological attack imminent
Condition GREY THREE Biological attack probable

Condition PURPLE ONE Atomic attack has been executed
Condition PURPLE TWO Atomic attack imminent
Condition PURPLE THREE Atomic attack probable

6. In the event that an emergency evacuation of the Test Area is ordered, the alert condition will be "CONDITION RAIN" and the message by wire or radio will be authenticated.

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Appendix 3 (Visual and Sound) to Annex LOVE to Oper-
ation Plan 1-55 (Cont'd)

7. All warning (alert) conditions will be passed as
FLASH MESSAGES:

EXAMPLE: "FLASH FLASH FLASH - This is BEDPOST
Condition GREY ONE over".

Stations within the net will acknowledge
this transmission in their proper order
and sequence.

8. The "all clear" from warning (alert) conditions
will be transmitted over designated radio or wire
circuits as "SECURE FROM CONDITION GREY ONE".

BY COMMAND OF BRIGADIER GENERAL EARNSHAW

E. N. RYDALCH
Colonel, U. S. Marine Corps
Chief of Staff

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Appendix 4 (Call Signs) to Annex LOVE to Operation
Plan 1-55

1. The call signs listed in this Appendix are effective during the period 10 to 20 March.

2. Call Signs are assigned as follows:

a. Regimental Command Net: 2308 Kcs (P) 4130Kcs (S).

MCTU #1	FOUR NAN NAN	4NN
1stBn	FOUR NAN NAN ABLE	4NNA
75mmPkHowBtry	FOUR NAN NAN BAKER	4NNB

b. Regimental Tactical Net: 38.9Mcs.

MCTU #1 (S-3)	CRIMINAL
1stBn (S-3)	CRIMINAL ABLE
75mmPkHowBtry	CRIMINAL BAKER
4.2" MortPlat	CRIMINAL CHARLIE

c. Regimental Intelligence Net: 50.8Mcs.

MCTU #1 (S-2)	EDITION
1stBn (S-2)	EDITION ABLE

d. Regimental Auxiliary Tactical Net: 52.0Mcs.

MCTU #1	CUPID
1stBn	CUPID ABLE

e. 75mm Pack Howitzer Battery FD Net: 30.2Mcs.

FDC	EARTHWORM
FO, "A" Co.	EARTHWORM ABLE
FO, "B" Co.	EARTHWORM BAKER
FO, "C" Co.	EARTHWORM CHARLIE
FO, "D" Co.	EARTHWORM DOG
Liaison Officer	EARTHWORM EASY

f. 4.2" Mortar FD Net: 39.0Mcs.

FDC	CUSTARD
FO	CUSTARD ABLE

g. Regimental Security: 48.8Mcs.

MCTU #1	CYPRESS
---------	---------

Generate additional calls as required by adding letters.

h. 1st Battalion Tactical: 53.0Mcs.

1stBn	CROWBAR
"A" Co.	CROWBAR ABLE
"B" Co.	CROWBAR BAKER
"C" Co.	CROWBAR CHARLIE
"D" Co.	CROWBAR DOG
ATA Platoon	CROWBAR EASY
4.2" MortPlat	CROWBAR FOX
75mmRGPlat	CROWBAR GEORGE
81mmMortPlat	CROWBAR WILLIAM

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Appendix 4 (Call Signs) to Annex LOVE to Operation
Plan 1-55 (Cont'd)

1. 1st Battalion Security: 48.0Mcs.

1stBn DANDRUFF

Generate additional calls as required by
adding letters.

J. 81mm Fire Direction: 49.8Mcs.

FDC DARLING
FO DARLING ABLE

K. "A" Company Tactical: 47.6Mcs.

Headquarters DROOPY
1stPlat (Add numeral 1 for PltSgt) DROOPY ABLE
2dPlat (Add numeral 1 for PltSgt) DROOPY BAKER
3dPlat (Add numeral 1 for PltSgt) DROOPY CHARLIE
Machine Gun Plat DROOPY DOG
60mm MortPlat DROOPY EASY

1. "B" Company Tactical: 49.0Mcs.

Headquarters DEADWOOD
1stPlat (Add numeral 1 for PltSgt) DEADWOOD ABLE
2dPlat (Add numeral 1 for PltSgt) DEADWOOD BAKER
3dPlat (Add numeral 1 for PltSgt) DEADWOOD CHARLIE
Machine Gun Plat DEADWOOD DOG
60mm MortPlat DEADWOOD EASY

M. "C" Company Tactical: 48.4Mcs.

Headquarters DUMB BELL
1stPlat (Add numeral 1 for PltSgt) DUMB BELL ABLE
2dPlat (Add numeral 1 for PltSgt) DUMB BELL BAKER
3dPlat (Add numeral 1 for PltSgt) DUMB BELL CHARLIE
Machine Gun Plat DUMB BELL DOG
60mm MortPlat DUMB BELL EASY

N. "D" Company Tactical: 51.0Mcs.

Headquarters DELICIOUS
1stPlat (Add numeral 1 for PltSgt) DELICIOUS ABLE
2dPlat (Add numeral 1 for PltSgt) DELICIOUS BAKER
3dPlat (Add numeral 1 for PltSgt) DELICIOUS CHARLIE
Machine Gun Plat DELICIOUS DOG
60mm MortPlat DELICIOUS EASY

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Appendix 4 (Call Signs) to Annex LOVE to Operation
Plan 1-55 (Cont'd)

c. Tactical Air Request: 4430Kcs.

DASC	TWO PETER OBOE
MCTU#1 AirLnO	TWO PETER OBOE ABLE
1stBn AirLnO	TWO PETER OBOE BAKER
FAC #1	TWO PETER OBOE 14 ABLE
FAC #2	TWO PETER OBOE 14 BAKER

p. Tactical Air Direction #1: 318.6Mcs.

DASC	PEEPSIGHT
MCTU#1 AirLnO	PEEPSIGHT ABLE
1stBn AirLnO	PEEPSIGHT BAKER
FAC #1 and #2	PEEPSIGHT 14
MAG-15 Aircraft: Appendix 2 to Annex CHARLIE (Air Plan)	

d. Helicopter Direction Net/TAD #2: 279.4Mcs.

DASC	PEEPSIGHT
MAG-36 (-)	LADYS MAN
MCTU #1 AirLnO	PEEPSIGHT ABLE
1stBn AirLnO	PEEPSIGHT BAKER
FAC #1 and #2	PEEPSIGHT 14
Helicopters	LADYS MAN 2 thru 30

r. Tactical Air Control Party Common: 50.4Mcs.

MCTU #1 AirLnO	DEFEAT
1stBn AirLnO	DEFEAT ABLE
FAC #1	DEFEAT 14 ABLE
FAC #2	DEFEAT 14 BAKER

s. Tactical Air Administrative: 4130Kcs (P)
2308Kcs (S).

DASC	SEVEN LOVE PETER	7LP
MAG-15 (-)	SEVEN LOVE PETER	
	ABLE	7LPA

t. Helicopter Support Unit Common: 4850Kcs.

Landing Zone ABLE	
(CO, HSU)	SIX LOVE JIG
3d MCPAEB (TACLOG)	SIX LOVE JIG ABLE
Landing Zone #2	SIX LOVE JIG BAKER
1stBn LnO	SIX LOVE JIG CHARLIE
75mmPkHowBtry LnO	SIX LOVE JIG DOG

3. Address Group for 3d MCPAEB - YPNO.

BY COMMAND OF BRIGADIER GENERAL EARNSHAW

E. N. RYDALCH
Colonel, U. S. Marine Corps
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Appendix 4 (Call Signs) to Annex LOVE to Operation
Plan 1-55 (Cont'd)

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CO, Marine Corps Test Unit #1.....	20	21-40
1st Battalion, MCTU #1.....(12)		
H&S Company, MCTU #1.....(3)		
75mmPkwBtry, MCTU #1.....(2)		
Headquarters, MCTU #1.....(3)		
CO, Helicopter Support Unit,		
3d MCPAEB.....	1	41
CO, Marine Camp Detachment,		
3d MCPAEB.....	2	42-43
CO, Marine Air Group-36.....	10	44-53
CO, Marine Air Group-15.....	4	54-57
CO, Marine Air Support Squadron-3.....	2	58-59
CO, Marine Air Group-35.....	2	60-61
CO, Marine Air Group-25.....	3	62-64
Commander, Field Test Group - 5 (Prov)		
Camp Mercury, Nevada.....	3	65-67
Deputy Exercise Director, Exercise		
Desert Rock VI, Camp Desert Rock,		
Nevada.....	5	68-72
Commandant of the Marine Corps.....	5	73-77
Chief of Naval Operations.....	1	78
CG, AirFMFPac.....	2	79-80
CG, FMFPac.....	2	81-82
CG, Force Troops, FMFPac.....	2	83-84
CG, Marine Corps Base, Camp Pendleton....	2	85-86
CG, Department of the Pacific.....	1	87
CG, Special Weapons Command,		
Kirtland AFB, Albuquerque, N.M.....	1	88
CG, Field Command, AFSWP,		
Sandia Base, Albuquerque, N.M.....	3	89-91
Commandant, Marine Corps Schools.....	3	92-94
CG, FMFLant.....	2	95-96
CG, Sixth U.S. Army, Presidio,		
San Francisco.....	1	97
FILE.....	20	98-117

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